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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATIONS AND OF THE COMPANY UNDERTAKING**

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**Product Name** Polyken 339, Nashua 324A  
**Product Description** Pressure Sensitive Adhesive  
**Manufacturer/Supplier** Berry Plastics Corporation, Tapes and Coatings Division  
**Address** 25 Forge Parkway  
Franklin, MA 02038  
**Phone Number** (800) 248-7659 (Monday – Friday 8:00 am to 5:00 pm)  
**Chemtrec Number** (800) 424-9300  
**Revision Date:** March 7, 2008  
**MSDS Date:** July 10, 2007

*Safety Data Sheet according to EC directive 2001/58/EC and OSHA's Hazcom Standard (29 CFR 1910.1200)*

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**2. HAZARDS IDENTIFICATION**

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**EU Main Hazards**

Not classified as hazardous.

**Routes of Entry**

Inhalation - Skin contact

**Carcinogenic Status**

Not considered carcinogenic by NTP, IARC, and OSHA.

**Target Organs**

Skin – Respiratory System – Liver – Kidney – Central Nervous System – Reproductive System

**Health Effects - Eyes**

Contact may cause irritation due to mechanical abrasion. High concentrations of vapor may cause irritation.

**Health Effects - Skin**

Prolonged, repeated contact with adhesive may cause irritation and/or allergic sensitization. Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis. Material can be absorbed through the skin and repeated, prolonged contact may cause adverse reproductive effects.

**Health Effects - Ingestion**

Not an expected route of entry during normal handling and use.

**Health Effects - Inhalation**

Exposure to vapor may have the following effects:

- irritation of nose, throat and respiratory tract - central nervous system depression - dizziness - drowsiness - headache - mental confusion

Repeated or prolonged exposure to vapor at high concentrations may have the following effects:

- adverse effects to nervous system - liver damage - kidney damage – lung damage – adverse reproductive effects

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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<b>Component Name</b>	<b>CAS#/Codes</b>	<b>Concentration</b>	<b>R Phrases</b>	<b>Classification</b>
Polymers	N.A.	<25%	None	None
Toluene	108-88-3 203-625-9	0.1 - <1%	R11, R38, R48/20, R63, R65, R67	F, Xn, Repro Cat. 3
Ethyl Acetate	141-78-6 205-500-4	<2.0%	R11,R36,R66 R67	F, Xi

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**4. FIRST AID MEASURES**

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**Eyes**

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

**Skin**

Wash skin thoroughly with soap and water. Obtain medical attention if blistering occurs or redness persists.

**Ingestion**

Obtain medical attention immediately.

**Inhalation**

Remove person to fresh air. Seek medical attention if symptoms persist.

**Advice to Physicians**

Treat symptomatically.

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**5. FIRE - FIGHTING MEASURES**

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**Extinguishing Media**

Water spray, carbon dioxide and dry chemical.

**Unusual Fire and Explosion Hazards**

May release hazardous vapors during a fire.

**Protective Equipment for Fire-Fighting**

Wear full protective clothing and self-contained breathing apparatus.

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**6. ACCIDENTAL RELEASE MEASURES**

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No specific measures necessary. Prevent the material from entering drains or watercourses.

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**7. HANDLING AND STORAGE**

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Keep away from heat and sources of ignition. Storage area should be: - cool - dry - well ventilated - away from incompatible materials

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Occupational Exposure Standards**

Exposure limits are listed below, if they exist.

**Polymer**

None established

**Ethyl Acetate**

ACGIH: TLV 400 ppm (1440mg/m<sup>3</sup>) 8h TWA.

OSHA: PEL 400ppm (1400mg/m<sup>3</sup>) 8h TWA

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Toluene**ACGIH: TLV 20 ppm (75mg/m<sup>3</sup>) 8hTWA.

OSHA: PEL 200 ppm 8h TWA , Ceiling (C) 300 ppm, 500ppm 10-min peak per 8-hr shift

**Engineering Control Measures**

No specific measures necessary. Good general room ventilation is expected to be adequate to control airborne levels.

**Respiratory Protection**

Respiratory protection not normally required.

**Hand Protection**

Not required under normal conditions of use. However, care should be taken to avoid contact with the adhesive.

**Eye Protection**

Safety glasses

**Body Protection**

Normal work wear.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Physical State</b>	Pressure sensitive adhesive coated onto a foil backing with silicone coated paper release liner
<b>Color</b>	Clear adhesive with silver foil backing and white liner
<b>Odor</b>	Slight solvent
<b>pH</b>	Not applicable
<b>Specific Gravity</b>	No data available
<b>Boiling Range/Point (°C/F)</b>	Not applicable
<b>Melting Point (°C/F)</b>	Not applicable
<b>Flash Point (PMCC) (°C/F)</b>	Not known
<b>Explosion Limits (%)</b>	No data available
<b>Vapor Pressure</b>	Not applicable
<b>Density</b>	No data.
<b>VOC (g/l)</b>	<30 g/l
<b>VOC (% by weight)</b>	<2%
<b>Solubility in Water</b>	Not known
<b>Vapor Density (Air = 1)</b>	Not applicable

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**10. STABILITY AND REACTIVITY**

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**Stability**

Stable under normal conditions.

**Conditions to Avoid**

- Heat - High temperatures

**Materials to Avoid**

Strong oxidizing agents - acids - bases

**Hazardous Polymerization**

Will not occur.

**Hazardous Decomposition Products**

- oxides of carbon – unknown hydrocarbons

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**11. TOXICOLOGICAL INFORMATION**

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**Acute Toxicity**

Ethyl Acetate: Oral LD50 (rat) 5,620 mg/kg

**Chronic Toxicity/Carcinogenicity**

Chronic overexposure to ethyl acetate may cause anemia with leukocytosis and kidney and liver damage.

**Genotoxicity**

This product is not expected to cause any mutagenic effects.

**Reproductive/Developmental Toxicity**

**Toluene:** In laboratory studies, birth defects, increased fetal lethality and delayed fetal development have been observed in offspring of female animals exposed during pregnancy. Toluene has been demonstrated to be embryofetotoxic and teratogenic in laboratory animals.

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**12. ECOLOGICAL INFORMATION**

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**Mobility**

No relevant studies identified.

**Persistence/Degradability**

No relevant studies identified.

**Bio-accumulation**

No relevant studies identified.

**Ecotoxicity**

The product may be harmful to aquatic organisms.

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**13. DISPOSAL CONSIDERATIONS**

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Dispose of in accordance with all applicable local and national regulations.

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**14. TRANSPORT INFORMATION**

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<b>DOT CFR 172.101 Data</b>	Not Regulated
<b>UN Proper Shipping Name</b>	Not Regulated
<b>UN Class</b>	None.
<b>UN Number</b>	None.
<b>UN Packaging Group</b>	None.
<b>Classification for AIR Transportation (IATA)</b>	Consult current IATA Regulations prior to shipping by air.

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**15. REGULATORY INFORMATION**

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**EU Label Information**

Classification and labelling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments(2001/60/EC and 2006/8/EC)

**EC Annex I Classification**

According to EC Commission Directive 67/548/EEC this product is not classified.

**R phrases**

None.

**S phrases**

None.

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**15. REGULATORY INFORMATION**

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**US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS****TSCA Listing**

This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Inventory.

**EINECS Listing**

All ingredients in this product have not been verified for listing on the European Inventory of Existing Commercial Chemical Substances (EINECS).

**DSL (Canadian) Listing**

All ingredients in this product have not been verified for listing on the Domestic Substance List (DSL).

**MA Right To Know Law**

This product contains the following chemicals on the Massachusetts Right to Know Law: toluene (108-88-3) <1.0% - ethyl acetate (141-78-6) <2.0% - ethyl acrylate (140-88-5) trace

**PA Right To Know Law**

This product contains the following chemicals on the Pennsylvania Hazardous Substance List: toluene (108-88-3) <1.0% - ethyl acetate (141-78-6) <2.0%

**NJ Right To Know Law**

This product contains the following chemicals on the New Jersey Workplace Hazardous Substance List: toluene (108-88-3) <1.0% - ethyl acetate (141-78-6) <2.0%

**California Proposition 65**

This product contains the following materials which the State of California has found to cause cancer, birth defects or other reproductive harm: toluene (108-88-3) <1.0% - benzene (71-43-2) trace - ethyl acrylate (140-88-5) trace

**SARA Title III Sect. 311/312 Categorization**

Immediate (acute) Delayed (Chronic)

**SARA Title III Sect. 313**

This product contains the following chemicals that are listed in Section 313 at or above de minimis concentrations: None

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**16. OTHER INFORMATION**

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**NFPA Ratings**

NFPA Code for Flammability - 0

NFPA Code for Health - 1

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards - 0

**HMIS Ratings**

HMIS Code for Flammability - 0

HMIS Code for Health - 1

HMIS Code for Reactivity - 0

HMIS Code for Personal Protection - See Section 8

**Abbreviations**

N/A: Denotes no applicable information found or available

CAS#: Chemical Abstracts Service Number

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety and Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

NTP: National Toxicology Program

IARC: International Agency for Research on Cancer

F: Highly Flammable

Xi: Irritant

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**16. OTHER INFORMATION**

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**Abbreviations**

Xn: Harmful

R: Risk

R11: Highly Flammable.

R36: Irritating to eyes.

R38: Irritating to skin.

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R63: Possible risk of harm to the unborn child.

R65: Harmful: may cause lung damage if swallowed.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapours may cause drowsiness and dizziness.

S: Safety

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

BOD: Biological Oxygen Demand

KoC: Soil Organic Carbon Partition Coefficient

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**Prepared By:** EnviroNet LLC.

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