

**BIN# 222****.80073****MATERIAL SAFETY DATA SHEET****SECTION I - PRODUCT IDENTIFICATION**

Product name: Nashua 357 Spray Adhesive  
 Product use: Adhesive  
 Chemical family: Mixture

Supplier name and address:  
 Kendall-Polyken  
 15 Hampshire Street  
 Mansfield, MA 02048

Phone #: (508) 261-6200  
 Emergency Phone #: (800) 248-7659

WHMIS CLASS: A, B5, D2B  
 HMIS Hazard Codes: Health 2, Flammability 4, Reactivity 1

**SECTION II - HAZARDOUS INGREDIENTS**

Ingredients	CAS #	wt. %	LC50 ppm (Rat, Ihl.)	LD50 mg/kg (Rat, oral)	Notes
Propane/ Isobutane	74-98-6/ 75-28-5	10-30	n/av n/av	n/av n/av	
Acetone	67-64-1	10-20	50100mg/m <sup>3</sup> /8H	5800	A
Hexane	110-54-3	15-40	n/av	n/av	

A) Subject to the Reporting Requirements of SARA III OF 1986,  
 Part 372.

**SECTION III - PHYSICAL DATA**

Physical State: Liquid, in an aerosol form.  
 Odor and appearance: White liquid, mint-like odor.  
 Odor threshold: n/av  
 Specific gravity: n/av Product density: 5.7 lbs/gal (US)  
 Coefficient of water/oil distribution: n/av  
 Vapor pressure (mm Hg): n/av  
 Boiling point: Range -41 to -106 = °C (-43 to -159°F)  
 Freezing point: n/av  
 pH: n/av  
 Vapor density (Air = 1): >1  
 Evaporation rate (Butyl Acetate = 1): >1  
 Volatiles, %: by weight 78.7, by volume 85.3  
 Solubility in water: Negligible.

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## SECTION IV - FIRE AND EXPLOSION DATA

Conditions of flammability: Extremely flammable aerosol.  
Means of extinction: Dry chemical, carbon dioxide, foam.  
Sensitivity to mechanical impact/static discharge: n/av  
Flash point (Method): liquid -104.44°C (-156°F)  
Upper flammable limit %: 12.8  
Lower flammable limit %: 1.0  
Auto-ignition temperature: n/av  
Special Fire Fighting Procedures: Wear self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode when fighting fires.  
Hazardous Combustion Products: Refer to Hazardous Decomposition Products.  
Unusual Fire and Explosion Hazards: Vapors are heavier than air and travel along the ground or may be moved by ventilation and ignited by ignition sources at locations distant from material handling point. All 5 gal. pails and larger should be grounded and/or bonded during material transferal. For aerosol products - exposure to temperature over 54°C (130°F) may cause containers to burst, releasing highly flammable gas.

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## SECTION V - REACTIVITY DATA

Stability: Stable. Hazardous polymerization will not occur.  
Incompatible materials: Oxidizing agents, acids.  
Conditions of reactivity: Heat, sparks, welding arcs, open flame, and static electricity.  
Hazardous decomposition products: Oxides of carbon, various hydrocarbons.

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## SECTION VI - TOXICOLOGICAL PROPERTIES

\*\*\*Routes of exposure and acute/chronic effects\*\*\*

Exposure limit: ACGIH-TLV: Acetone 750 ppm, 1780 mg/m<sup>3</sup> TWA, 1000 ppm, 2380 mg/m<sup>3</sup> STEL, Hexane 50 ppm, 176 mg/m<sup>3</sup> TWA

Irritancy of Product:

Inhalation: Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation. Overexposure may cause damage to the nervous system. Overexposure to this material (or its components) has apparently been found to cause the following effects in laboratory animals; kidney damage, eye damage.

Skin: Prolonged or repeated contact may cause moderate irritation, defatting, dermatitis.

Eyes: Can cause severe irritation, redness, tearing, blurred vision.

Ingestion: Harmful if swallowed.

Chronic effects: None reported.

Carcinogenicity: None of the ingredients of this product is listed by IARC and ACGIH as carcinogenic.

Reproductive effects, Teratogenicity, Mutagenicity: n/av

Sensitization to Product: None reported.

Name of Toxicologically Synergistic Products: None known.

Medical Conditions Prone to Aggravation by Exposure: Central nervous system disorders.

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**SECTION VII - FIRST AID**

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Inhalation: Remove victim to fresh air. If breathing is difficult, administer oxygen. Give artificial respiration if breathing has stopped. Keep person warm, quiet. Get medical attention.  
Eyes: Flush with large amounts of water, lifting eyelids occasionally. Get medical attention.  
Skin: Thoroughly wash exposed area with soap and water, remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.  
Ingestion: Do not induce vomiting. Give two glasses of water if conscious. Never give anything by mouth to an unconscious person. Get immediate medical attention.

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**SECTION VIII - PREVENTIVE MEASURES**

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Spill, leak or release: Eliminate sources of ignition and ventilate area. Persons not properly equipped should be excluded from the area. Stop spill at source - prevent spreading. Avoid inhalation of vapors. Avoid skin contact with liquid. Soak up on absorbent material and place into container for disposal. Use plastic scoops for flammable materials.  
Waste disposal: Review federal, provincial and local government requirements prior to disposal.

**\*\*\*PROTECTIVE EQUIPMENT\*\*\***

Respiratory protection: If workplace exposure limits of product or any component is exceeded, a NIOSH approved air supplied respirator is advised in absence of proper environmental control. Engineering and administrative controls should be implemented to reduce exposure.  
Ventilation: Provide sufficient mechanical ventilation (General and/or local exhaust ventilation to maintain exposure below TLV(s)).  
Protective gloves: Wear resistant gloves, such as PVC/Nitrile, Neoprene.  
Eye protection: Chemical splash goggles are advised, however safety glasses may be adequate.  
Other protective equipment: To prevent repeated and prolonged skin contact, wear impervious clothing and boots.

**\*\*\*STORAGE HANDLING\*\*\*****Storage and handling conditions:**

Handling: Avoid contact with skin, eyes and clothing. Avoid ignition sources. Do not puncture or incinerate, or place aerosol containers in compactors. Keep out of reach of children. Storage: Store in a cool, dry, well ventilated area. Keep away from heat sources, open flame, sparks. Do not store above 48°C (120°F). Do not store in direct sunlight.

Special Shipping Information: Refer to TDG Act and Regulations.

**Additional notes or references:****Abbreviations:**

n/av: not available

n/ap: not applicable

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TLV: Threshold Limit Values

TWA: Time-Weighted Average

NIOSH: National Institute of Occupational Safety and Health

TDG: Transportation of Dangerous Goods Act

**References:**

1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 1991-92.
2. International Agency for Research on Cancer Monographs, Supplement 7, 1988.
3. Canadian Centre for Occupational Health and Safety, Cheminfo Database.
4. N. Irving Sax, Dangerous Properties of Industrial Materials, Seventh Edition.

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**SECTION IX - PREPARATION INFORMATION**

Prepared by: Kendall-Polyken  
Telephone #: (508) 261-6200  
Preparation date: November 10, 1992

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Tyco International Ltd Company

A division of The Kendall Company

Nashua Tape Products

357

SPRAY ADHESIVE

Features:

Nashua 357 is a fast skin, fast grab, low soak in adhesive. 357 Spray Adhesive was especially formulated to bond polyethylene to concrete block, wood and many other hard-to-bond places. It may also be used to bond fabric, fiberglass insulation, plastic films, felt, rubber, leather, cork, paper, cardboard, urethane foam, foil to metal, wood to themselves and a variety of other substrates. May also be used to bond carpet and is ideal for label applications. Nashua 357 may be used either for permanent or temporary bonds.

- Contains no methylene chloride
- Application temperature: -10°F to 180°F
- Lace spray pattern
- Net wt. 17oz.(482 grams); 24 fluid oz.
- Physical & Chemical Resistance: Good to oxidation, UV and moisture.
- Bonding Time: 15 seconds to several hours
- Color: Water white
- Shelf Life: At least one year from the date of manufacture
- Suitable solvents for clean up: Nashua 200 Citrus Cleaner.

Application:

Hold can 6-8 inches away from surface to be sprayed, depress nozzle (with arrow pointed away from body) and apply a uniform coat. For porous substrates, two coats in the opposite direction of each other will increase bond strength. For permanent bonding applications, apply a heavy coat to both surfaces. For temporary bonds, apply a light coat to one surface only and bond. Read precautions on label before using.

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