

**Henkel***A Brand Like a Friend*

# Material Safety Data Sheet

## Section 1. Chemical Product and Company Identification

<b>Product Name</b> Dorus KS 217N	<b>Effective Date</b> 03/05/2004
<b>Product Use</b> Industrial Hot Melt Adhesive	<b>Supersedes</b> 03/05/2004
<b>Company Address</b> Henkel Adhesives 1345 Gasket Drive Elgin, IL 60120 (847) 608-0200	<b>Transportation Emergency</b> ChemTrec: 800-424-9300  <b>Non-Transportation Emergency</b> 847-468-9200

## Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
Synthetic Polymer Adhesive	Mixture	100	None Established

## Section 3. Hazards Identification

<b>Physical State and Appearance</b>	Tan or off-white granulated solid
<b>Emergency Overview</b>	CAUTION! Molten adhesive may cause severe burns. Adhesive vapors may cause slight irritation of the skin, eyes or respiratory system.
<b>Routes of Exposure</b>	Skin contact Eye contact Inhalation Ingestion
<b>Potential Acute Health Effects</b>	<p><b>Eyes</b> Adhesive vapors may cause eye irritation. Molten adhesive may cause severe burns.</p> <p><b>Skin</b> Adhesive vapors may cause skin irritation. Molten adhesive may cause severe burns.</p> <p><b>Inhalation</b> Adhesive vapors may cause slight irritation of the respiratory tract.</p> <p><b>Ingestion</b> May produce gastrointestinal irritation. Ingestion is not an expected route of entry in commercial and industrial operations.</p>
<b>Potential Chronic Health Effects</b>	There is no known effect from chronic exposure to this product.

## Section 4. First Aid Measures

<b>Eye Contact</b>	Molten adhesive may cause severe burns. If eye contact occurs immediately cool with water. Do not remove adhesive. Seek medical attention.
<b>Skin Contact</b>	In case of skin contact with molten adhesive, cool skin with plenty of water. Do not remove adhesive from skin. Remove contaminated clothing and shoes. Get medical attention.
<b>Inhalation</b>	If vapors are inhaled, move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.

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<b>Ingestion</b>	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms persist.
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### Section 5. Fire Fighting Measures

<b>Flammability of the Product</b>	Non-flammable.
<b>Auto-ignition Temperature</b>	Not determined
<b>Flash Points</b>	CLOSED CUP: >232°C (450°F).
<b>Flammable Limits</b>	Not applicable.
<b>Fire Fighting Media and Instructions</b>	Use dry chemical, water spray or carbon dioxide. Qualified persons wearing full fire-fighting suits and approved/certified self-contained breathing apparatus. During a fire, irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.

### Section 6. Accidental Release Measures

<b>Spill and Leak</b>	Use appropriate tools to collect adhesive solids and place in a waste disposal container. Discard in accordance with federal, state and local regulations.
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### Section 7. Handling and Storage

<b>Handling</b>	Avoid contact with molten material.
<b>Storage</b>	Keep container tightly closed when not in use.

### Section 8. Exposure Controls/Personal Protection

<b>Engineering Controls</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to prevent exposure to airborne vapors or gases.
<b>Personal Protection</b>	
<i>Eyes</i>	Safety glasses with side shields.
<i>Body</i>	Wear overalls or long sleeved shirt and long trousers.
<i>Respiratory</i>	Wear appropriate respirator when ventilation is inadequate.
<i>Hands</i>	Heat and chemical resistant gloves.
<i>Feet</i>	Safety Shoes

### Section 9. Physical and Chemical Properties

<b>Physical State and Appearance</b>	Tan or off-white granulated solid
<b>Odor</b>	Resinous
<b>Odor Threshold</b>	Not determined.
<b>Color</b>	Tan.
<b>pH</b>	Not applicable.
<b>Melting/Freezing Point</b>	100°C (212°F) (Softening Point)
<b>Specific Gravity</b>	0.98 (Water = 1)
<b>Vapor Pressure</b>	Not applicable.
<b>Vapor Density</b>	Not applicable

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<b>Volatility</b>	Non-volatile.
<b>Evaporation Rate</b>	Not applicable
<b>Viscosity</b>	Approx. 100,000 mPa.sec @ 356°F
<b>Solubility</b>	Insoluble in water.
<b>Dispersion Properties</b>	Not dispersed in water.
<b>Boiling Point</b>	Not applicable
<b>Water/oil distribution coefficient</b>	Not determined
<b>Physical Chemical Comments</b>	No additional comments

### Section 10. Stability and Reactivity

<b>Stability and Reactivity</b>	The product is stable.
<b>Conditions of Instability</b>	Avoid contact with strong oxidizers
<b>Incompatibility with Various Substances</b>	May react with strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Carbon dioxide, carbon monoxide and irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.
<b>Hazardous Polymerization</b>	Will not occur.

### Section 11. Toxicological Information

<b>Product LC<sub>50</sub>/LD<sub>50</sub></b>	LD50: No data available. LC50: No data available.
<b>Toxicological Effects</b>	No additional information

### Section 12. Ecological Information

<b>Ecotoxicity</b>	No data available
<b>Toxicity of the Products of Biodegradation</b>	No data available.

### Section 13. Disposal Considerations

<b>Waste Information</b>	This product does not meet the criteria of a USEPA hazardous waste if discarded in its original purchased form. Must be disposed of in accordance with federal, state and local environmental regulations.
<b>Consult your local or regional authorities.</b>	

### Section 14. Transport Information

<b>DOT Classification</b>	Not a DOT regulated material (United States).
<b>Proper Shipping Name</b>	Not applicable.
<b>UN/NA Identification Number</b>	Not applicable.
<b>Packing group</b>	Not applicable.
<b>Hazardous Substances Reportable Quantity</b>	Not applicable
<b>Special Provisions for Transport</b>	No additional remark.

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**TDG Classification** Not a TDG controlled material.

### Section 15. Regulatory Information

**U.S. Federal Regulations** TSCA Inventory: All components are listed.  
SARA 313 toxic chemical notification and release reporting: No products were found.

**State Regulations** No products were found.  
**California Prop. 65** California prop. 65: No products were found.

**Canadian Regulatory Lists** Contains components listed on both the Canadian Domestic Substances List (DSL) and Non-Domestic Substances List (NDSL).  
**WHMIS (Canada)** WHMIS: Not a controlled product under WHMIS  
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**International Regulations** No additional information.

### Section 16. Other Information

**Hazardous Material Information System (U.S.A.)**

Health	/	1
Fire Hazard		1
Reactivity		0
Personal Protection		

**National Fire Protection Association (U.S.A.)**



Validated by Henkel Adhesives Regulatory Department on 3/5/2004

Verified by Henkel Adhesives Regulatory Department.  
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**Transportation Emergency** ChemTrec: 800-424-9300

#### Notice to Reader

*To the best of our knowledge, the information contained herein is accurate. It is the users responsibility to determine suitability for the user's purpose and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. However, neither the above named supplier nor any of its subsidiaries assumes responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected to handling, storage, use, misuse or disposal of this product. If this product is used as a component in another product, this MSDS information may not be applicable.*