

# Material Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-2004



1. Product and Company Identification	
Product Name <b>VELCRO® Brand Hook 88 and Loop 1000 with Hot Melt Pressure Sensitive Adhesive</b>	MSDS Code Number
Trade Names & Synonyms	Date of Last Revision <b>August 2, 2012</b>
Chemical Name <b>Nylon, Acrylic Copolymer, Hot Melt PSA</b>	Manufacturer <b>Velcro USA Inc. <a href="http://www.velcro.com">www.velcro.com</a></b>
C.A.S. Number <b>N/A</b>	Address <b>406 Brown Ave. Manchester, NH 03103</b>
Grades or Minor Variant Identities <b>N/A</b>	Information Telephone Number <b>603-669-4880</b>
VPN – 215531 & 215532	Emergency Telephone Number <b>603-669-4880</b>

2. Hazards Identification					
Emergency Overview This product is essentially non-toxic and non-allergenic in normal use. Follow procedures for good industrial hygiene. Product is unlikely to cause skin or eye irritation. Melt processing releases vapors which may cause eye, skin and respiratory tract irritation.					
Routes of Exposure	Signs and Symptoms	Single, Repeated, or Lifetime Exposure	Severity (Mild, Moderate, Severe)	Acute & Chronic Health Effects	Target Organ(s)
Eye <b>X (dust)</b>	<b>Irritation</b>	<b>Single</b>	<b>Mild</b>	<b>None</b>	
Skin					
Inhalation					
Ingestion					
Other					
Medical Conditions Aggravated by Exposure <b>None Known</b>					
Carcinogenicity (OSHA, IARC, NTP) There is no chemical present in this product at a concentration of 0.1% or more classified as a carcinogen by IARC, NTP or OSHA.					
Potential Environmental Effects					

3. Composition/Information on Ingredients			
Hazardous Components	C.A.S. Number	Exposure Limits	% by wt.
Product does not contain any Hazardous Components.			
OSHA Regulatory Status This product is not considered to be a hazardous material according to the U.S. Occupational Safety and Health Act definitions and regulations, including the Hazard Communication Standard 29 CFR 1910.1200.			

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**4. First Aid Measures**

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye <b>X</b>	Follow established first aid procedures for flushing foreign material from eye.		
Skin <b>X</b>	Wash hands with soap and water.		
Inhalation <b>X</b>	Move to fresh air and if symptoms persist, call a Physician.		
Ingestion <b>X</b>	Follow established first aid procedures for ingestion of foreign material.		
Other			
Note to Physician (Treatment, Testing, and Monitoring)			

**5. Fire Fighting Measures**

Flashpoint & Method	°F	Flammable (Explosive) Limits in Air (LEL & UEL)	Autoignition Temp.	°F	Other
		N/A			
Flame Propagation or Burning Rate (for solids)	Properties Contributing to Fire Intensity		Flammability Classification		
Not Tested	None				
Extinguishing Media	Extinguishing Media to Avoid			Reactions to Extinguishing Media	
Water, Foam, CO <sup>2</sup> , or Dry Chem				N/A	
Protection and Procedures for Firefighters					
Fire-fighters and others who may be exposed to products of combustion should wear full protective clothing including self-contained breathing apparatus.					
Unusual Fire and Explosion Hazards					
Combustible thermoplastic material: may melt and drip and produce heavy smoke. Products of combustion can include: oxides of carbon, sulfur and nitrogen; traces of hydrogen cyanide and unknown hydrocarbons.					

**6. Accidental Release Measures**

Personal Precautions
Environmental Precautions
Containment Techniques
None
Spill/Leak Clean-Up Procedures and Equipment
Material is safe to handle. If processing generates fibers or dust, sweep and dispose in normal trash receptacle.
Evacuation Procedures
None
Special Instructions
None
Reporting Requirements
None

**7. Handling and Storage**

Handling Practices and Warnings
This material does not require special handling.
Storage Practices and Warnings
Store in cool, dry place, away from excessive heat.

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**8. Exposure Control/Personal Protection**

Ventilation <b>None Required</b>	Other Engineering Controls	
Routes of Entry	Personal Protective Equipment (PPE) for Normal Use	PPE for Emergencies
Eye/Face		
Skin		
Inhalation		
General Hygiene Consideration and Work Practices		
Protective Measures During Repair and Maintenance of Contaminated Equipment		
Other Protective Measures and Equipment		

**9. Physical and Chemical Properties**

Appearance <b>Textile Nylon Fastener</b>		Odor <b>Essentially odorless</b>	
Normal Physical State <b>Solid</b>	Boiling Point <b>N/A</b>	Melting Point <b>&gt;400°F - &gt;227°C</b>	Freezing Point <b>N/A</b>
Specific Gravity or Density (H <sub>2</sub> O = 1) <b>&gt; 1.0</b>	Solubility in Water <b>Insoluble</b>		Ph <b>N/A</b>
Vapor Pressure <b>N/A</b>	Vapor Density (AIR = 1) <b>N/A</b>	Evaporation Rate (Butyl Acetate = 1) <b>N/A</b>	
Other			

**10. Stability and Reactivity**

Incompatibility (Materials to Avoid) <b>Strong Acids, oxidizing agents and bases.</b>	
Hazardous Products Produced During Decomposition <b>Molten vapors or fumes may cause irritation to the respiratory tract. Combustible thermoplastics material may melt and drip, contact with hot molten tape will cause thermal burns.</b>	
Hazardous Polymerization <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur	Conditions to Avoid <b>Excessive heat and ignition sources</b>
Stability <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	Conditions to Avoid

**11. Toxicological Information**

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data  <b>Finished article not tested. See section 2 for available information on potential health effects.</b>
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**12. Ecological Information**

Toxicity, Environmental Fate, Physical/Chemical Data, or Other Supporting Environmental Hazard Statements  <b>Finished article not tested. Please refer to section 6 for information regarding accidental releases and section 15 for regulatory reporting information.</b>
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**13. Disposal Considerations**

Regulations

Properties (Physical/Chemical) Affecting Disposal

**Treat as normal solid waste. Reuse or recycle if possible.**

NOTE: State or local requirements may differ from federal regulations. Processing or using this product may make the information here inappropriate. Waste generators are responsible for waste classification, transport, and disposal.

**14. Transport Information**

Regulated for Shipping?

 Yes  No

Proper Shipping Name

Packing Group

Do changes in quantity, packaging, or shipment method change product classification?

 Yes  No

Hazard Class

Identification Number

**15. Regulatory Information**

Federal Regulations (OSHA, TSCA, CERCLA, FIFRA, EPCRA, CAA, SWA, SDWA, CPSA, DEA, FDA/USDA, etc.)

**Consumer Product Safety Act (CPSIA)***This VELCRO® Brand product does not contain **Lead**.**This VELCRO® Brand product does not contain **Phthalates**.*

State Regulations

International Regulations

**EU Directive 2002/95/EC – Restriction of Hazardous Substances (RoHS) “banned substances” along with EU Directive 2002/96/EC – Waste from Electrical and Electronic Equipment (WEEE)***VELCRO® Brand products do not exceed the amount of allowable levels concerning: Cadmium (Cd); Hexavalent Chromium (CrVI); Mercury (Hg); Lead (Pb); Polybrominated Biphenyls (PBB's) as bromide; Polybrominated Diphenyl Ethers (PBDEs) as bromide, decaBDE***Registration, Evaluation and Authorization of Chemicals (EU - REACH) & Substances of Very High Concern (SVHC)***VELCRO® Brand product shipped into the EU are considered “Articles”. REACH Article 3(3) defines Article as: “an object which during production is given a special shape, surface or design which determines its function to a greater degree than its chemical composition”.***Pick appropriate statement:***This VELCRO® Brand Product does not contain substances on the SVHC list as of June 18, 2012.*

Other

**Ozone-Depleting Substances (ODS)***VELCRO® Brand products do not contain Ozone-Depleting substances nor are Ozone-Depleting Substances used in our manufacturing process. e.g. Chlorofluorocarbons (CFCs); Halons; Carbon Tetrachloride; Methyl Chloroform; Methyl Bromide; Hydro Bromofluorcarbon (HFBCs); and Hydro Chlorofluorcarbon (HCFCs)***Natural Latex***VELCRO® Brand products do not contain natural rubber latex.***16. Other Information**

Label Text, Hazard Rating Systems, Key Legend, or Other

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