
	<h1>Material Safety Data Sheet</h1>		<b>24 Hour Emergency Phone Numbers:</b> <b>Medical/Poison Control:</b> In U.S.: Call 1-800-222-1222 Outside U.S.: Call your local poison control center <b>Transportation/National Response Center:</b> 1-800-535-5053 1-352-323-3500
			<p>NOTE: The National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.</p>

**IMPORTANT:** Provide this information to employees, customers, and users of this product. Read this MSDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

## Section 1 - Chemical Product / Company Information

This Material Safety Data Sheet is available in American Spanish upon request.  
 Los Datos de Seguridad del Producto pueden obtenerse en Espanol si lo requiere.

**Product Name:** High Strength Spray Adhesive  
**Product UPC Number:** 070798001213  
**Product Use/Class:** Spray Adhesive  
**Manufactured for:** DAP Products Inc.  
 2400 Boston Street Suite 200  
 Baltimore, MD 21224-4723  
 888-327-8477 (non-emergency matters)

**Revision Date:** 05/01/2013  
**Supersedes:** 09/10/2009  
**MSDS Number:** 00030199004

## Section 2 - Hazards Identification

**Emergency Overview:** A(n) opaque pressurized liquid product with a solvent odor. DANGER! Vapors may ignite explosively. Extremely flammable liquid and vapor. Vapors may cause flash fire or explosion. Keep away from heat, sparks and flame. Use only with adequate ventilation. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. Do not breathe dust, vapors or spray mist. Vapors harmful if inhaled. Harmful or fatal if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage. Contents under pressure. Do not puncture can.

Refer to other MSDS sections for other detailed information.

**Effects Of Overexposure - Eye Contact:** Causes eye irritation. Signs and symptoms may include: pain, tears, swelling, redness and blurred vision.

**Effects Of Overexposure - Skin Contact:** Causes skin irritation. Prolonged and repeated skin contact may cause dermatitis, drying and defatting due to the solvent properties.

**Effects Of Overexposure - Inhalation:** Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea. Causes nose and throat irritation.

**Effects Of Overexposure - Ingestion:** Harmful or fatal if swallowed. If ingested, may cause depressed respiration. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis, which can be fatal.

**Effects Of Overexposure - Chronic Hazards:** Repeated or prolonged exposure may cause irregular heartbeat and heart failure as well as respiratory system, kidney, cardiovascular and liver damage. Prolonged or repeated contact with skin can cause defatting of the skin, which may lead to dermatitis. NOTICE: Reports have associated repeated and

prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Symptoms include: loss of memory, loss of intellectual ability and loss of coordination. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. May cause kidney and liver damage as well as developmental and reproductive toxicity. Overexposure or misuse of toluene can cause liver, kidney, and brain damage as well as cardiac abnormalities. There have been cases of aplastic anemia from toluene in industrial exposures (ACGIH, 1992). Increased coagulation time and reduced clotting factors have also been found, which are indicators of damage to the bone marrow (Clayton & Clayton, 1994).

n-Hexane exposure can cause nerve damage to arms and legs causing numbness of the fingers and toes, effect may be permanent. Symptoms include: loss of memory, loss of intellectual ability and loss of coordination.

**Primary Route(s) Of Entry:** Skin Contact, Inhalation

**Medical Conditions which May be Aggravated by Exposure:** None known.

**Carcinogenicity:**

None

<b>Section 3 - Composition / Information On Ingredients</b>		
<b>Chemical Name</b>	<b>CASRN</b>	<b>Wt%</b>
Isobutane	75-28-5	10-30
Propane	74-98-6	10-30
n-Hexane	110-54-3	10-30
Acetone	67-64-1	10-30
Toluene	108-88-3	3-7

### **Section 4 - First Aid Measures**

**First Aid - Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

**First Aid - Skin Contact:** Remove and wash contaminated clothing. Wash off with soap and water. Wash thoroughly with soap and water.

**First Aid - Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**First Aid - Ingestion:** If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately. Never give anything by mouth to an unconscious person.

**Note to Physician:** None.

**COMMENTS:** If over-exposure occurs, call your poison control center at 1-800-222-1222.

### **Section 5 - Fire Fighting Measures**

**Extinguishing Media:** Carbon Dioxide, Dry Chemical, Foam

**Unusual Fire And Explosion Hazards:** Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Vapors may form explosive mixtures with air. Eliminate sources of ignition: heat, electrical equipment, sparks and flames. Containers may explode if exposed to extreme heat. Store away from caustics and oxidizers.

**Special Firefighting Procedures:** Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

## Section 6 - Accidental Release Measures

**Steps To Be Taken If Material Is Released Or Spilled:** Wear proper protective equipment as specified in Section 8. Immediately eliminate sources of ignition. Contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

## Section 7 - Handling And Storage

**Handling:** KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY. Do not breathe vapors. Vapors may cause flash fire. Use in well ventilated area. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal. Construction and repair activities can adversely affect indoor air quality. Consult with occupants or a representative (i.e. maintenance, building manager, industrial hygienist, or safety officer) to determine ways to minimize impact.

Make sure nozzle is directed away from yourself prior to discharge.

**Storage:** Keep away from heat and sources of ignition. Avoid excessive heat and freezing. Protect material from direct sunlight. Keep containers tightly closed. Do not store at temperatures above 120 degrees F. Store away from caustics and oxidizers.

## Section 8 - Exposure Controls / Personal Protection

Chemical Name	CASRN	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Skin
Isobutane	75-28-5	1000 PPM	N.E.	N.E.	N.E.	N.E.	N.E.	No
Propane	74-98-6	1000 PPM	N.E.	N.E.	1000 PPM	N.E.	N.E.	No
n-Hexane	110-54-3	50 PPM	N.E.	N.E.	500 PPM	N.E.	N.E.	Yes
Acetone	67-64-1	500 PPM	750 PPM	N.E.	1000 PPM	N.E.	N.E.	No
Toluene	108-88-3	20 PPM	N.E.	N.E.	200 PPM	N.E.	300 PPM	Yes

**Precautionary Measures:** Please refer to other sections and subsections of this MSDS.

**Engineering Controls:** Vapors are heavier than air and may spread along floors. Check all low areas for presence of vapor. Provide sufficient general and/or local exhaust ventilation to maintain exposure below recommended exposure limit. Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. When concentrations exceed the exposure limits specified, use of a NIOSH approved full facepiece organic vapor cartridge respirator is recommended. Where the protection factor may be exceeded, use of a full facepiece supplied air respirator or Self Contained Breathing Apparatus (SCBA) may be necessary.

**Respiratory Protection:** If concentrations exceed the exposure limits specified, use of a NIOSH-approved supplied air respirator is recommended. Where the protection factor is exceeded, use of a Self Contained Breathing Apparatus (SCBA) may be necessary. A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**Skin Protection:** Impervious gloves. Wear solvent impervious gloves.

**Eye Protection:** Goggles or safety glasses with side shields.

**Other protective equipment:** Not required under normal use.

**Hygienic Practices:** Remove and wash contaminated clothing before re-use.

**Important:** Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); these limits may vary between states.

**Note:** An employee's skin exposure to substances having a "YES" in the "SKIN" column in the table above shall be prevented or reduced to the extent necessary under the circumstances through the use of gloves, coveralls, goggles or other appropriate personal protective equipment, engineering controls or work practices.

## Section 9 - Physical And Chemical Properties

<b>Boiling Range:</b>	Not Established	<b>Vapor Density:</b>	Heavier Than Air
<b>Odor:</b>	Solvent	<b>Odor Threshold:</b>	Not Established
<b>Color:</b>	Opaque	<b>Evaporation Rate:</b>	Faster Than n-Butyl Acetate
<b>Solubility in H<sub>2</sub>O:</b>	Not Established	<b>Specific Gravity:</b>	0.80 - 0.80
<b>Freeze Point:</b>	Not Established	<b>pH:</b>	Not Established
<b>Vapor Pressure:</b>	Not Established	<b>Viscosity:</b>	Not Established
<b>Physical State:</b>	Pressurized Liquid	<b>Flammability:</b>	Level II Aerosol
<b>Flash Point, F:</b>	Aerosol	<b>Method:</b>	(Not Applicable)
<b>Lower Explosive Limit, %:</b>	Not Determined	<b>Upper Explosive Limit, %:</b>	Not Determined

When reported, vapor pressure of this product has been calculated theoretically based on its constituent makeup and has not been determined experimentally.

(See section 16 for abbreviation legend)

## Section 10 - Stability And Reactivity

**Conditions To Avoid:** Excessive heat and freezing.

**Incompatibility:** Strong oxidizing agents. Strong bases.

**Hazardous Decomposition Products:** Normal decomposition products, i.e., CO<sub>x</sub>, NO<sub>x</sub>.

**Hazardous Polymerization:** Hazardous polymerization will not occur under normal conditions.

**Stability:** Stable under recommended storage conditions.

## Section 11 - Toxicological Information

**Product LD50:** Not Established

**Product LC50:** Not Established

CASRN	Chemical Name	LD50	LC50
75-28-5	Isobutane	-----	Rat:57 ppb/15M
110-54-3	n-Hexane	Rat:28710 mg/kg	Rat:48000 ppm/4H
67-64-1	Acetone	-----	Rat:50100 mg/m <sup>3</sup> /8H
108-88-3	Toluene	-----	Rat:49 gm/m <sup>3</sup> /4H

**Significant Data with Possible Relevance to Humans:** None.

## Section 12 - Ecological Information

**Ecological Information:** Ecological injuries are not known or expected under normal use.

## Section 13 - Disposal Information

**Disposal Information:** Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste. Do not burn or use a cutting torch on the empty drum.

**EPA Waste Code if Discarded (40 CFR Section 261):** D001.

## Section 14 - Transportation Information

**DOT Proper Shipping Name:** Aerosols, flammable  
**DOT Technical Name:** N.A.  
**DOT Hazard Class:** 2.1 Flammable gas

**Packing Group:** N.A.  
**Hazard Subclass:** N.A.  
**DOT UN/NA Number:** UN1950

## Section 15 - Regulatory Information

### CERCLA - SARA Hazard Category:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard, Chronic Health Hazard, Fire Hazard, Pressurized Hazard

### SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
n-Hexane	110-54-3
Toluene	108-88-3

### Toxic Substances Control Act:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None

### New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product:

Chemical Name	CAS Number
Petroleum hydrocarbon resin	68527-25-3
Styrene-Ethylene/Butylene-Styrene Block Copolymer	Proprietary
Coumarone indene resin	68132-02-5

### Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%:

Chemical Name	CAS Number
Petroleum hydrocarbon resin	68527-25-3
Styrene-Ethylene/Butylene-Styrene Block Copolymer	Proprietary
Coumarone indene resin	68132-02-5

### California Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

## Section 16 - Other Information

**HMIS Ratings:**

Health: 2	Flammability: 4	Reactivity: 0	Personal Protection: X
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**Volatile Organic Compounds (VOC), less water less exempts: g/L: 509.3 lb/gal: 4.25 wt:wt%: 54.0**

**Volatile Organic Compounds (VOC), less water less exempts, less LVP-VOCs: wt:wt%: 54.0**

**REASON FOR REVISION:** Periodic Update

**Legend:**

N.A. – Not Applicable	ACGIH – American Conference of Governmental Industrial Hygienists
N.E. – Not Established	SARA – Superfund Amendments and Reauthorization Act of 1986
N.D. – Not Determined	NJRTK – New Jersey Right-to-Know Law
VOC – Volatile Organic Compound	OSHA – Occupational Safety and Health Administration
PEL – Permissible Exposure Limit	HMIS – Hazardous Materials Identification System
TLV – Threshold Limit Value	NTP – National Toxicology Program
CEIL – Ceiling Exposure Limit	STEL – Short Term Exposure Limit
LD50 – Lethal Dose 50	LC50 – Lethal Concentration 50
F – Degree Fahrenheit	MSDS – Material Safety Data Sheet
C – Degree Celsius	CASRN – The Chemical Abstracts Service Registry Number

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. **NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS.** Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

<End of MSDS>