
	<h1>Material Safety Data Sheet</h1>		<b>24 Hour Emergency Phone Numbers:</b> <b>Medical/Poison Control:</b> 1-800-327-3874 1-513-558-5111 <b>Transportation/National Response Center:</b> 1-800-535-5053 1-352-323-3500
			<p>.....</p> <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> <p>.....</p>
<p><b>IMPORTANT:</b> 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.</p>			

## Section 1 - Chemical Product / Company Information

This Material Safety Data Sheet is available in Canadian French and Hispanic American Spanish upon request.  
 On peut demander cette fiche signalétique (MSDS) a la langue francaise-canadienne.  
 Los Datos de Seguridad del Producto pueden obtenerse en Espanol si lo riquiere.

<b>Product Name:</b>	DAP® BEATS THE NAIL® Drywall Construction Adhesive	<b>Revision Date:</b>	10/02/2007
<b>Product UPC Number:</b>	070798250376	<b>Supercedes:</b>	03/22/2000
<b>Product Use/Class:</b>	Drywall Construction Adhesive	<b>MSDS Number:</b>	00011010001
<b>Manufacturer:</b>	<b>DAP Inc.</b> <b>2400 Boston Street Suite 200</b> <b>Baltimore, MD 21224-4723</b> <b>888-327-8477 (non-emergency matters)</b>		

## Section 2 - Hazards Identification

**Emergency Overview:** A gray paste product with a strong solvent odor. DANGER! Flammable liquid and vapor. Vapors may ignite explosively. Keep away from heat, sparks and flame. Do not breathe vapors. Do not breathe dust, vapors or spray mist. Use only with adequate ventilation. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. Aspiration hazard if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

Refer to other MSDS sections for other detailed information.

**Effects Of Overexposure - Eye Contact:** Causes eye irritation. May cause eye irritation.

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

**Effects Of Overexposure - Inhalation:** Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea. Inhalation of vapors in high concentration may cause irritation of respiratory system. Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Aspiration into lungs may cause pulmonary edema and chemical pneumonitis. Can cause nerve damage to arms and legs. Effects may be permanent.

**Effects Of Overexposure - Ingestion:** Harmful or fatal if swallowed. If ingested, may cause vomiting, diarrhea, and depressed respiration. May be harmful if swallowed.

**Effects Of Overexposure - Chronic Hazards:** 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. Prolonged or repeated contact with acetone can cause defatting of the skin, which may lead to dermatitis. 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, Ingestion, Eye Contact

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

**Carcinogenicity:**

CAS No.	Chemical Name	ACGIH	OSHA	IARC	NTP
13463-67-7	Titanium dioxide	Not Listed.	Not Listed.	Possible carcinogen.	Not Listed.
14808-60-7	Silica, crystalline	Suspected human carcinogen.	Not Listed.	Human carcinogen.	Known carcinogen.
7440-43-9	Cadmium & compounds	Suspected human carcinogen.	Cancer hazard.	Human carcinogen.	Known carcinogen.
7439-92-1	Lead & compounds	Confirmed animal carcinogen with unknown relevance to humans.	Not Listed.	Probable carcinogen.	Anticipated carcinogen.
7440-38-2	Arsenic & compounds	Confirmed human carcinogen.	Cancer hazard.	Human carcinogen.	Known carcinogen.
100-42-5	Styrene	Not Listed.	Not Listed.	Possible carcinogen.	Not Listed.
71-43-2	Benzene	Confirmed human carcinogen.	Cancer hazard.	Human carcinogen.	Known carcinogen.
106-99-0	1,3-Butadiene	Suspected human carcinogen.	Cancer hazard.	Probable carcinogen.	Known carcinogen.

### Section 3 - Composition / Information On Ingredients

Chemical Name	CASRN	Wt%
Kaolin	1332-58-7	10-30
Calcium Carbonate	471-34-1	10-30
n-Hexane	110-54-3	5-10
2-Methylpentane	107-83-5	3-7
3-Methylpentane	96-14-0	3-7
Magnesite	546-93-0	1-5
Methylcyclopentane	96-37-7	1-5
Rheological modifier	68953-58-2	1-5
Isoheptane	591-76-4	0.5-1.5
2,3-Dimethylbutane	79-29-8	0.5-1.5
2,4-Dimethylpentane	108-08-7	0.1-1.0
3-Methylhexane	589-34-4	0.1-1.0
2,2-Dimethylpentane	590-35-2	0.1-1.0
Cyclohexane	110-82-7	0.1-1.0
2,3-Dimethylpentane	565-59-3	0.1-1.0
Titanium dioxide	13463-67-7	0.1-1.0
3,3-Dimethylpentane	562-49-2	0.1-1.0

### Section 4 - First Aid Measures

**First Aid - Eye Contact:** Immediately flush eyes with large quantities of water for at least 15 minutes until irritation subsides. Get medical attention.

**First Aid - Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes.

**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.

**Note to Physician:** None.

**COMMENTS:** Call Medical Emergency at 1-800-327-3874 if any irritation or complication arises from any of the above routes of entry.

## Section 5 - Fire Fighting Measures

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

**Unusual Fire And Explosion Hazards:** Store away from caustics and oxidizers. Material will readily ignite at room temperature. Extremely Flammable! 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. Containers may explode if exposed to extreme heat. Eliminate sources of ignition: heat, electrical equipment, sparks and flames. Vapors may form explosive mixtures with air. Vapors can flow along surfaces to a distant ignition source and flash back. Flammable liquid. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back.

**Special Firefighting Procedures:** Use a self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive pressure mode. Cool containers and/or tanks with spray water.

## Section 6 - Accidental Release Measures

**Steps To Be Taken If Material Is Released Or Spilled:** Wear proper protective equipment as specified in Section 8. None known.

## Section 7 - Handling And Storage

**Handling:** KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY. Avoid breathing vapors. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal. Vapors may cause flash fire. Use only with adequate ventilation. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. 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.

**Storage:** Keep away from heat and sources of ignition. Do not store at temperatures above 120 degrees F. Store containers away from excessive heat and freezing. Keep containers closed when not in use. 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
Kaolin	1332-58-7	2 MGM3	N.E.	N.E.	15 MGM3	N.E.	N.E.	No
Calcium Carbonate	471-34-1	10 MGM3	N.E.	N.E.	5 MGM3 (respirable fraction)	N.E.	N.E.	No
n-Hexane	110-54-3	50 PPM	N.E.	N.E.	500 PPM	N.E.	N.E.	Yes
2-Methylpentane	107-83-5	500 PPM	1000 PPM	N.E.	N.E.	N.E.	N.E.	No
3-Methylpentane	96-14-0	500 PPM	1000 PPM	N.E.	N.E.	N.E.	N.E.	No
Magnesite	546-93-0	10 MGM3	N.E.	N.E.	5 MGM3	N.E.	N.E.	No
Methylcyclopentane	96-37-7	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Rheological modifier	68953-58-2	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Isoheptane	591-76-4	400 PPM	500 PPM	N.E.	500 PPM	N.E.	N.E.	No
2,3-Dimethylbutane	79-29-8	500 PPM	1000 PPM	N.E.	N.E.	N.E.	N.E.	No
2,4-Dimethylpentane	108-08-7	400 PPM	500 PPM	N.E.	500 PPM	N.E.	N.E.	No
3-Methylhexane	589-34-4	400 PPM	500 PPM	N.E.	500 PPM	N.E.	N.E.	No

2,2-Dimethylpentane	590-35-2	400 PPM	500 PPM	N.E.	500 PPM	N.E.	N.E.	No
Cyclohexane	110-82-7	100 PPM	N.E.	N.E.	300 PPM	N.E.	N.E.	No
2,3-Dimethylpentane	565-59-3	400 PPM	500 PPM	N.E.	500 PPM	N.E.	N.E.	No
Titanium dioxide	13463-67-7	10 MGM3	N.E.	N.E.	15 MGM3	N.E.	N.E.	No
3,3-Dimethylpentane	562-49-2	400 PPM	500 PPM	N.E.	500 PPM	N.E.	N.E.	No

**Exposure Notes:** None.

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

**Engineering Controls:** Provide sufficient general and/or local exhaust ventilation to maintain exposure below recommended exposure limit. Check all low areas for presence of vapor. Vapors are heavier than air and may spread along floors. 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.

**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:** Wear solvent impervious gloves.

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

**Other protective equipment:** Provide eyewash and solvent impervious apron if body contact may occur.

**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>	Strong Solvent	<b>Odor Threshold:</b>	Not Established
<b>Color:</b>	Gray	<b>Evaporation Rate:</b>	Faster Than n-Butyl Acetate
<b>Solubility in H<sub>2</sub>O:</b>	Not Established	<b>Specific Gravity:</b>	1.2
<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>	Paste	<b>Flammability:</b>	Flammable
<b>Flash Point, F:</b>	-30 F	<b>Method:</b>	(Seta Closed Cup)
<b>Lower Explosive Limit, %:</b>	Not Established	<b>Upper Explosive Limit, %:</b>	Not Established

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 acids and oxidizing agents.

**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
471-34-1	Calcium Carbonate	Rat:6450 mg/kg	-----
110-54-3	n-Hexane	Rat:28710 mg/kg	Rat:48000 ppm/4H
110-82-7	Cyclohexane	Rat:12705 mg/kg	-----

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

## Section 12 - Ecological Information

**Ecological Information:** None known.

## Section 13 - Disposal Information

**Disposal Information:** Do not re-use empty containers. Liquids cannot be disposed of in a landfill. 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.

**EPA Waste Code if Discarded (40 CFR Section 261):** This product does not meet the definition of a hazardous waste according to U.S. EPA Hazardous Waste Management Regulation, 40 CFR Section 261.

## Section 14 - Transportation Information

<b>DOT Proper Shipping Name:</b>	Consumer Commodity	<b>Packing Group:</b>	N.A.
<b>DOT Technical Name:</b>	N.A.	<b>Hazard Subclass:</b>	N.A.
<b>DOT Hazard Class:</b>	ORM-D	<b>DOT UN/NA Number:</b>	None

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation and/or to non-domestic destinations.

## 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

### 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

**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	Proprietary
Butadiene-styrene copolymer	Proprietary
Crosslinked styrene-butadiene rubber	Proprietary

**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	Proprietary
Butadiene-styrene copolymer	Proprietary
Crosslinked styrene-butadiene rubber	Proprietary

**California Proposition 65:**

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

<b>Section 16 - Other Information</b>
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**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:** 308.7    **lb/gal:** 2.6    **wt:wt%:** 26.2

**Volatile Organic Compounds (VOC), less water less exempts, less LVP-VOCs:**    **wt:wt%:** 26.2

**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.

&lt;End of MSDS&gt;