



## Safety Data Sheet

**24 Hour Emergency Phone Numbers**  
**Medical/Poison Control:**  
**In U.S.: Call 1-800-222-1222**

**Outside U.S.: Call your local poison control center**

**Transportation/National Response Center:**

**1-800-535-5053**

**1-352-323-3500**

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.

**IMPORTANT:** Provide this information to employees, customers, and users of this product. Read this SDS 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.

### 1. Identification

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

<b>Product Name:</b>	DAP 4000 Subfloor & Deck Construction Adhesive	<b>Revision Date:</b>	6/19/2015
<b>Product UPC Number:</b>	25020, 25117	<b>Supercedes Date:</b>	New SDS
<b>Product Use/Class:</b>	Construction Adhesive	<b>SDS No:</b>	00010303001
<b>Manufacturer:</b>	DAP Products Inc. 2400 Boston Street Suite 200 Baltimore, MD 21224-4723 888-327-8477 (non - emergency matters)		
<b>Preparer:</b>	Regulatory Department		

### 2. Hazards Identification

**EMERGENCY OVERVIEW:** DANGER! Flammable liquid and vapor. Vapors may cause flash fire or explosion. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back. Flammable liquid and vapor. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back. 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. Keep container closed and away from heat, sparks, and open flame. Store away from caustics and oxidizers. Avoid breathing vapor. Use only with adequate ventilation. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. Irritating to eyes, respiratory system and skin. Harmful or fatal if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage. Aspiration may cause pulmonary edema and pneumonitis. May affect the brain or nervous system causing dizziness, headache or nausea.

**GHS Classification**

Flam. Liq. 3, Skin Irrit. 2, STOT RE 2, STOT SE 3 NE

**Symbol(s) of Product****Signal Word**

Warning

**GHS HAZARD STATEMENTS**

Flammable Liquid, category 3	H226	Flammable liquid and vapour.
Skin Irritation, category 2	H315	Causes skin irritation.
STOT, single exposure, category 3, NE	H336	May cause drowsiness or dizziness.
STOT, repeated exposure, category 2	H373	May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

**GHS LABEL PRECAUTIONARY STATEMENTS**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P362	Take off contaminated clothing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

**GHS SDS PRECAUTIONARY STATEMENTS**

P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/.../ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.

### 3. Composition/Information on Ingredients

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Wt. %</u>	<u>GHS Symbols</u>	<u>GHS Statements</u>
Calcium Carbonate	471-34-1	10-25	GHS03-GHS07	H270-332
Clay	1332-58-7	10-25	GHS03	H270
n-Hexane	110-54-3	10-25	GHS02-GHS03-GHS07-GHS08	H225-270-304-315-336-373
Toluene	108-88-3	2.5-10	GHS02-GHS03-GHS07-GHS08	H225-270-302-304-315-332-335-336-373
2-Methylpentane	107-83-5	2.5-10	GHS02-GHS03-GHS07-GHS08	H225-270-304-315-336
3-Methylpentane	96-14-0	2.5-10	GHS02-GHS03-GHS07-GHS08	H225-270-304-315-336
Magnesite	546-93-0	2.5-10	GHS03	H270
Methylcyclopentane	96-37-7	2.5-10	GHS03-GHS08	H270-304
Isoheptane	591-76-4	1.0-2.5	GHS02-GHS03-GHS07-GHS08	H225-270-304-315-336
Titanium dioxide	13463-67-7	0.1-1.0	No Information	No Information

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

## 4. First-aid Measures

**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. NOTE: Only trained personnel should administer artificial respiration or give oxygen.

**FIRST AID - SKIN CONTACT:** Wash skin with soap and water for 15 minutes. Get medical aid if symptoms persist. Remove and wash contaminated clothing. DO NOT try to peel the solidified material from the skin or use solvents or thinners to dissolve it. The use of vegetable oil or mineral oil is recommended for removal of this material from the skin. Flush exposed area with water while removing contaminated clothing. Get medical attention if irritation persists. To remove from skin, remove completely with a dry cloth or paper towel, before washing with detergent and water.

**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 - INGESTION:** If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

## 5. Fire-fighting Measures

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Eliminate sources of ignition: heat, electrical equipment, sparks and flames. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back. Vapors may form explosive mixtures with air. Containers may explode if exposed to extreme heat. Empty containers retain product residue (liquid and/or vapor). Vapor can ignite potentially causing an explosion.

**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.

**EXTINGUISHING MEDIA:** Carbon Dioxide, Dry Chemical, Foam

## 6. Accidental Release Measures

**ENVIRONMENTAL MEASURES:** No Information

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** NOTE: Review fire hazards before proceeding with clean up. Immediately eliminate sources of ignition. Keep people away from and upwind of spill/leak. Scrape up dried material and place into containers. Prevent product from entering drains. Soak up with inert absorbent material and dispose of as hazardous waste. Read all product instructions before using. Personal protective equipment should include impervious gloves, protective eye wear, and suitable work clothes.

## 7. Handling and Storage

**HANDLING:** KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY. Remove all sources of ignition. Keep away from open flames, hot surfaces and sources of ignition. Provide adequate ventilation. Avoid heat, sparks and open flames. Wear appropriate personal protection. Avoid breathing vapor and contact with eyes, skin and clothing. Use in well ventilated area. Open all windows and doors or use other means to ensure cross-ventilation and fresh air entry during application and drying. Odor is not an adequate warning for hazardous conditions. Empty containers retain product residue (liquid and/or vapor). Vapor can ignite potentially causing an explosion. Wash thoroughly after handling. Do not use in areas where static sparks may be generated. 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.

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

## 8. Exposure Controls/Personal Protection

### Ingredients with Occupational Exposure Limits

<u>Chemical Name</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH-TLV STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA PEL-CEILING</u>
Calcium Carbonate	N.E.	N.E.	N.E.	N.E.

Clay	2 mg/m3 TWA particulate matter containing no asbestos and <1% crystalline silica, respirable fraction	N.E.	15 mg/m3 TWA total dust, 5 mg/m3 TWA respirable fraction	N.E.
n-Hexane	50 ppm TWA	N.E.	500 ppm TWA, 1800 mg/m3 TWA	N.E.
Toluene	20 ppm TWA	N.E.	200 ppm TWA	300 ppm Ceiling
2-Methylpentane	N.E.	N.E.	N.E.	N.E.
3-Methylpentane	N.E.	N.E.	N.E.	N.E.
Magnesite	N.E.	N.E.	15 mg/m3 TWA total dust, 5 mg/m3 TWA respirable fraction	N.E.
Methylcyclopentane	N.E.	N.E.	N.E.	N.E.
Isoheptane	400 ppm TWA	500 ppm STEL	N.E.	N.E.
	Heptane, all isomers	Heptane, all isomers		
Titanium dioxide	10 mg/m3 TWA	N.E.	15 mg/m3 TWA total dust	N.E.

**Further Advice:** MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation  
Sk = Skin Sensitizer N.E. = Not Established

### Personal Protection



**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. In case of insufficient ventilation, wear suitable respiratory equipment. 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:** Solvent-resistant 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.

## 9. Physical and Chemical Properties

<b>Appearance:</b>	Tan	<b>Physical State:</b>	Paste
<b>Odor:</b>	Strong Solvent	<b>Odor Threshold:</b>	Not Established
<b>Density, g/cm<sup>3</sup>:</b>	1.11 - 1.11	<b>pH:</b>	Not Established
<b>Freeze Point, °C:</b>	Not Established	<b>Viscosity (mPa.s):</b>	170,000 - 250,000 cPs
<b>Solubility in Water:</b>	Not Established	<b>Partition Coeff., n-octanol/water:</b>	Not Established
<b>Decomposition Temperature, °C:</b>	Not Established	<b>Explosive Limits, %:</b>	N.I. - N.I.
<b>Boiling Range, °C:</b>	N.I. - N.I.	<b>Auto-Ignition Temperature, °C</b>	Not Established
<b>Minimum Flash Point, °C:</b>	23.9	<b>Vapor Pressure, mmHg:</b>	No Information
<b>Evaporation Rate:</b>	Faster Than n-Butyl Acetate	<b>Flash Method:</b>	Seta Closed Cup
<b>Vapor Density:</b>	Heavier Than Air	<b>Flammability:</b>	No Information
<b>Combustibility:</b>	Does not support combustion		

(See "Other information" Section for abbreviation legend)

(If product is an aerosol, the flash point stated above is that of the propellant.)

## 10. Stability and Reactivity

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

**CONDITIONS TO AVOID:** Excessive heat and freezing. Keep away from open flames, hot surfaces and sources of ignition. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Avoid contact with skin, eyes and clothing.

**INCOMPATIBILITY:** Open flames, hot surfaces and sources of ignition. Keep away from strong oxidizing agents, heat and open flames. Incompatible with strong bases and oxidizing agents. Avoid contact with strong acids and oxidizable organic materials in the presence of heat.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Normal decomposition products, i.e., CO<sub>x</sub>, NO<sub>x</sub>.

## 11. Toxicological Information

**EFFECT OF OVEREXPOSURE - INHALATION:** Inhalation of vapors may cause irritation of the nose, throat, lungs and respiratory tract. Inhalation of vapors in high concentration may cause shortness of breath (lung edema). Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Prolonged, repeated or high exposures may cause central nervous system depression leading to headaches, nausea, drowsiness, dizziness, and possibly narcosis. In extreme cases, may cause loss of consciousness.

**EFFECT OF OVEREXPOSURE - SKIN CONTACT:** May cause skin irritation. Prolonged and repeated skin contact may cause dermatitis, drying and defatting due to the solvent properties.

**EFFECT OF OVEREXPOSURE - EYE CONTACT:** May cause eye irritation. Signs and symptoms may include: pain, tears, swelling, redness and blurred vision.

**EFFECT OF OVEREXPOSURE - INGESTION:** Harmful or fatal if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause gastrointestinal disturbances with dizziness and central nervous system depression. If ingested, may cause depressed respiration. Aspiration hazard if swallowed. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis, which can be fatal.

**CARCINOGENICITY:** No Information

**EFFECT OF OVEREXPOSURE - CHRONIC HAZARDS:** Repeated or prolonged exposure may cause skin, respiratory, kidney and liver damage. May cause kidney and liver damage as well as developmental and reproductive toxicity. Prolonged or repeated inhalation of solvent vapors may cause irregular heartbeat. **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. 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:** Inhalation, Skin Contact

### Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Vapor LC50</u>
471-34-1	Calcium Carbonate	6450 mg/kg Rat	>2000 mg/kg Rat	>20 mg/L
1332-58-7	Clay	>5000 mg/kg Rat	>5000 mg/kg Rat	>20 mg/L
110-54-3	n-Hexane	28710 mg/kg Rat	3000 mg/kg Rabbit	> 31.86 mg/L Rat
108-88-3	Toluene	636 mg/kg Rat	8390 mg/kg Rabbit	12.5 mg/L Rat
107-83-5	2-Methylpentane	28710 mg/kg Rat	3000 mg/kg Rabbit	> 31.86 mg/L Rat
96-14-0	3-Methylpentane	28710 mg/kg Rat	3000 mg/kg Rabbit	> 31.86 mg/L Rat
546-93-0	Magnesite	>2000 mg/kg Rat	>2000 mg/kg	>20 mg/L
96-37-7	Methylcyclopentane	28710 mg/kg Rat	3000 mg/kg Rabbit	> 31.86 mg/L Rat
591-76-4	Isoheptane	28710 mg/kg Rat	3000 mg/kg Rabbit	> 31.86 mg/L Rat
13463-67-7	Titanium dioxide	>10000 mg/kg Rat	>5000 mg/kg Rabbit	>20 mg/L

N.I. = No Information

## 12. Ecological Information

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

## 13. Disposal Information

**DISPOSAL INFORMATION:** Residues and spilled material are hazardous waste due to ignitability. 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 flush into surface water or sanitary sewer system. Do not empty into drains. Do not re-use empty containers. The container for this product can present explosion or fire hazards, even when emptied. To avoid risk of injury, do not cut, puncture, or weld on or near this container.

## 14. Transport Information

**SPECIAL TRANSPORT PRECAUTIONS:** No Information

<b>DOT UN/NA Number:</b>	UN1133
<b>DOT Proper Shipping Name:</b>	Adhesives, containing a flammable liquid
<b>DOT Technical Name:</b>	N.A.
<b>DOT Hazard Class:</b>	3
<b>Hazard SubClass:</b>	N.A.
<b>Packing Group:</b>	III



H315	Causes skin irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.

**Icons for GHS Pictograms shown in Section 3 describing each ingredient:**

GHS02	
GHS03	
GHS07	
GHS08	

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

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.