1. Identification

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

Product Name: Dynagrip 4000 Subfloor Construction Adhesive

Product UPC Number: 070798275171, 070798251175

Product Use/Class: Construction Adhesive

Manufacturer: DAP Products Inc.
2400 Boston Street Suite 200
Baltimore, MD 21224-4723
888-327-8477 (non - emergency matters)

Emergency Telephone: 1-800-535-5053, 1-352-323-3500, 1-800-222-1222

Safety Data Sheet Coordinator: MSDS@DAP.com

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 pneumaticus. 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 through prolonged or repeated exposure.

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.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P321 Specific treatment (see ... on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing.
P370+P378 In case of fire: Use... to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container to ...

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Wt. %</th>
<th>GHS Symbols</th>
<th>GHS Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Carbonate</td>
<td>471-34-1</td>
<td>10-25</td>
<td>GHS07</td>
<td>H332</td>
</tr>
<tr>
<td>n-Hexane</td>
<td>110-54-3</td>
<td>10-25</td>
<td>GHS02-GHS07-GHS08</td>
<td>H225-304-315-336-373</td>
</tr>
<tr>
<td>Clay</td>
<td>1332-58-7</td>
<td>10-25</td>
<td>No Information</td>
<td>No Information</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>2.5-10</td>
<td>GHS02-GHS07-GHS08</td>
<td>H225-304-315-335-336-373</td>
</tr>
<tr>
<td>Methylcyclopentane</td>
<td>96-37-7</td>
<td>2.5-10</td>
<td>GHS08</td>
<td>H304</td>
</tr>
<tr>
<td>3-Methylpentane</td>
<td>96-14-0</td>
<td>2.5-10</td>
<td>GHS02-GHS07-GHS08</td>
<td>H225-304-315-336</td>
</tr>
<tr>
<td>Magnesite</td>
<td>546-93-0</td>
<td>2.5-10</td>
<td>No Information</td>
<td>No Information</td>
</tr>
<tr>
<td>2-Methylpentane</td>
<td>107-83-5</td>
<td>1.0-2.5</td>
<td>GHS02-GHS07-GHS08</td>
<td>H225-304-315-336</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>0.1-1.0</td>
<td>No Information</td>
<td>No Information</td>
</tr>
</tbody>
</table>

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: Alcohol Foam, 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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV-TWA</th>
<th>ACGIH-TLV STEL</th>
<th>OSHA PEL-TWA</th>
<th>OSHA PEL-CEILING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Carbonate</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
<tr>
<td>n-Hexane</td>
<td>50 ppm TWA</td>
<td></td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
<tr>
<td>Clay</td>
<td>2 mg/m3 TWA particulate matter containing no asbestos and &lt;1% crystalline silica, respirable fraction</td>
<td>N.E.</td>
<td>500 ppm TWA, 1800 mg/m3 TWA</td>
<td>N.E.</td>
</tr>
<tr>
<td>Toluene</td>
<td>20 ppm TWA</td>
<td>N.E.</td>
<td>200 ppm TWA</td>
<td>300 ppm Ceiling</td>
</tr>
<tr>
<td>Methylcyclopentane</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
</tbody>
</table>
3-Methylpentane

500 ppm TWA
Hexane isomers other than n-hexane
N.E.

1000 ppm STEL
Hexane isomers other than n-hexane
N.E.

Magnesite

2-Methylpentane

500 ppm TWA
Hexane isomers other than n-hexane
N.E.

Hexane isomers other than n-hexane
N.E.

10 mg/m³ TWA
N.E.

Titanium dioxide

15 mg/m³ TWA
N.E.

total dust

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Tan</td>
</tr>
<tr>
<td>Odor</td>
<td>Strong Solvent</td>
</tr>
<tr>
<td>Density, g/cm³</td>
<td>1.12 - 1.12</td>
</tr>
<tr>
<td>Freeze Point, °C</td>
<td>Not Established</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>No Information</td>
</tr>
<tr>
<td>Decomposition Temperature, °C</td>
<td>Not Established</td>
</tr>
<tr>
<td>Boiling Range, °C</td>
<td>N.I. - N.I.</td>
</tr>
<tr>
<td>Minimum Flash Point, °C</td>
<td>23.9</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>Faster Than n-Butyl Acetate</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>Heavier Than Air</td>
</tr>
<tr>
<td>Combustibility:</td>
<td>Does not support combustion</td>
</tr>
<tr>
<td>Physical State:</td>
<td>Paste</td>
</tr>
<tr>
<td>Odor Threshold:</td>
<td>Not Established</td>
</tr>
<tr>
<td>pH</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Viscosity (mPa.s):</td>
<td>Not Established</td>
</tr>
<tr>
<td>Partition Coeff., n-octanol/water:</td>
<td>Not Established</td>
</tr>
<tr>
<td>Explosive Limits, %</td>
<td>N.I. - N.I.</td>
</tr>
<tr>
<td>Auto-Ignition Temperature, °C</td>
<td>Not Established</td>
</tr>
<tr>
<td>Vapor Pressure, mmHg:</td>
<td>Seta Closed Cup</td>
</tr>
<tr>
<td>Flash Method:</td>
<td></td>
</tr>
<tr>
<td>Flammability:</td>
<td>Flammable</td>
</tr>
</tbody>
</table>

(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., COx, NOx.

### 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:** Eye Contact, Inhalation, Skin Contact

#### Acute Toxicity Values

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

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Vapor LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>471-34-1</td>
<td>Calcium Carbonate</td>
<td>6450 mg/kg Rat</td>
<td>&gt;2000 mg/kg Rat</td>
<td>&gt;20 mg/L</td>
</tr>
<tr>
<td>110-54-3</td>
<td>n-Hexane</td>
<td>28710 mg/kg Rat</td>
<td>3000 mg/kg Rabbit</td>
<td>&gt;31.86 mg/L Rat</td>
</tr>
<tr>
<td>1332-58-7</td>
<td>Clay</td>
<td>&gt;5000 mg/kg Rat</td>
<td>&gt;5000 mg/kg Rabbit</td>
<td>&gt;20 mg/L</td>
</tr>
<tr>
<td>108-88-3</td>
<td>Toluene</td>
<td>2600 mg/kg Rat</td>
<td>12000 mg/kg Rabbit</td>
<td>12.5 mg/L Rat</td>
</tr>
<tr>
<td>96-37-7</td>
<td>Methylcyclopentane</td>
<td>28710 mg/kg Rat</td>
<td>3000 mg/kg Rabbit</td>
<td>&gt;31.86 mg/L Rat</td>
</tr>
<tr>
<td>96-14-0</td>
<td>3-Methylpentane</td>
<td>28710 mg/kg Rat</td>
<td>3000 mg/kg Rabbit</td>
<td>&gt;31.86 mg/L Rat</td>
</tr>
<tr>
<td>546-93-0</td>
<td>Magnesite</td>
<td>&gt;2000 mg/kg Rat</td>
<td>&gt;2000 mg/kg</td>
<td>&gt;20 mg/L</td>
</tr>
<tr>
<td>107-83-5</td>
<td>2-Methylpentane</td>
<td>28710 mg/kg Rat</td>
<td>3000 mg/kg Rabbit</td>
<td>&gt;31.86 mg/L Rat</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Titanium dioxide</td>
<td>&gt;10000 mg/kg Rat</td>
<td>&gt;5000 mg/kg Rabbit</td>
<td>&gt;20 mg/L</td>
</tr>
</tbody>
</table>

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

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

15. Regulatory Information

U.S. Federal Regulations:

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:

Fire Hazard, Acute 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:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Hexane</td>
<td>110-54-3</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
</tr>
</tbody>
</table>

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:

No TSCA 12(b) components exist in this product.

CALIFORNIA PROPOSITION 65 CARCINOGENS AND REPRODUCTIVE TOXINS

CALIFORNIA PROPOSITION 65: WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

International Regulations: As follows -

CANADIAN WHMIS:

This SDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

| WHMIS Class | Consumer Commodity |
16. Other Information

Revision Date: 12/9/2016

Reason for revision: HazCom2012/GHS Conversion

Datasheet produced by: Regulatory Department

HMIS Ratings:

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>3</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

VOC Less Water Less Exempt Solvent, g/L: 418.2
VOC Material, g/L: 418
VOC as Defined by California Consumer Product Regulation, Wt/Wt%: 37.5

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
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

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.