

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 SDS are further described in Section 16.

## 1. Identification

| Product Name:       | SmartBond Landscape Adhesive Foam                 | Revision Date:     | 10/10/2019                              |  |
|---------------------|---|--------------------|---|--|
| Product UPC Number: | 070798000407, 070798000520                        | Supercedes Date:   | 2/12/2019                               |  |
| Manufactured For    | DAP Products Inc.<br>2400 Boston Street Suite 200 | Product Use/Class: | Foam Sealant/Adhesive                   |  |
|                     | Baltimore, MD 21224-4723                          | SDS No:            | 00010129004                             |  |
|                     | 888-327-8477 (non - emergency matters)            | Preparer:          | Regulatory and Environmental<br>Affairs |  |
|                     | SDS Coordinator: MSDS@dap.com                     |                    | Alldiis                                 |  |
|                     | Emergency Telephone: 1-800-535-5053.              |                    |   |  |

## 2. Hazards Identification

#### **GHS Classification**

Carc. 2, Comp. Gas, Eye Irrit. 2, FI Aer, 1, Resp. Sens. 1, Skin Sens. 1

1-352-323-3500, 1-800-222-1222

#### Symbol(s) of Product



#### Signal Word Danger

Possible Hazards 7% of the mixture consists of ingredients of unknown acute toxicity

### **GHS HAZARD STATEMENTS**

| Flammable Aerosol, category 1 | H222 | Extremely flammable aerosol.                        |
|-------------------------------|------|---|
| Compressed Gas                | H280 | Contains gas under pressure; may explode if heated. |
| Skin Sensitizer, category 1   | H317 | May cause an allergic skin reaction.                |

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|--|--|
| Eye Irritation, category 2             | H319 Causes serious eye irritation.  |
| Acute Toxicity, Inhalation, category 4 | H332 Harmful if inhaled.   |
| Respiratory Sensitizer, category 1     | H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  |
| Carcinogenicity, category 2            | H351 Suspected of causing cancer.  |
| GHS LABEL PRECAUTIONARY STATE          | /ENTS  |
| P201                                   | Obtain special instructions before use.  |
| P210                                   | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                   |
| P211                                   | Do not spray on an open flame or other ignition source.  |
| P251                                   | Do not pierce or burn, even after use.   |
| P261                                   | Avoid breathing dust/fume/gas/mist/vapours/spray.  |
| P264                                   | Wash thoroughly after handling.  |
| P271                                   | Use only outdoors or in a well-ventilated area.  |
| P272                                   | Contaminated work clothing should not be allowed out of the workplace.   |
| P280                                   | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P281                                   | Use personal protective equipment as required.   |
| P284                                   | [In case of inadequate ventilation] wear respiratory protection.   |
| P302+P352                              | IF ON SKIN: Wash with plenty of soap and water.  |
| P304+P340                              | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P305+P351+P338                         | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P313                              | IF exposed or concerned: Get medical advice/attention.   |
| P312                                   | Call a POISON CENTER or doctor/physician if you feel unwell.   |
| P321                                   | Specific treatment (see on this label).  |
| P333+P313                              | If skin irritation or rash occurs: Get medical advice/attention.   |
| P337+P313                              | If eye irritation persists: Get medical advice/attention.  |
| P342+P311                              | If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  |
| P405                                   | Store locked up.   |
| P410+P403                              | Protect from sunlight. Store in a well-ventilated place.   |
| P410+P412                              | Protect from sunlight. Do no expose to temperatures exceeding 50°C/ 122°F.   |
| P501                                   | Dispose of contents/container to   |
|  |  |

#### GHS SDS PRECAUTIONARY STATEMENTS P363 Was

Wash contaminated clothing before reuse.

## 3. Composition/Information on Ingredients

| <u>Chemical Name</u><br>Polymeric diphenylmethane diisocyanate<br>Tris(2-chloro-1-methylethyl) phosphate<br>4,4'-Methylene diphenyl diisocyanate (MDI) | <u>CAS-No.</u><br>9016-87-9<br>13674-84-5<br>101-68-8 | Wt. % GHS Symbols   30-60 GHS07   10-30 GHS07   1-5 GHS07-GHS08 | <u>GHS Statements</u><br>H332<br>H302-332<br>H315-317-319-332-334-335-351<br>-373 |
|--|---|---|---|
| Dimethyl ether   | 115-10-6  | 1-5 No Information  | No Information  |
| Isobutane  | 75-28-5   | 1-5 GHS07   | H332-336  |
| n-Butane   | 106-97-8  | 0.5-1.5 GHS02-GHS07   | H220-332-336  |
| Ethylene glycol  | 107-21-1  | 0.5-1.5 GHS07   | H332  |
| 4,4'-(Oxydi-2,1-ethanediyl)bismorpholine   | 6425-39-4   | 0.5-1.5 GHS07   | H302-319  |
| Propane  | 74-98-6   | 0.5-1.5 GHS07   | H332-336  |

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 you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

FIRST AID - SKIN CONTACT: Wash skin with soap and water for 15 minutes. Get medical aid if symptoms persist. Use a rag to remove excess foam from skin and remove contaminated clothing. Use of a solvent, such as acetone (nail polish remover) or mineral spirits, may help in removing uncured foam residue from clothing or other surfaces (avoid eye contact). Cured foam may be physically removed by persistent washing with soap and water. If irritation develops, use mild skin cream. If irritation persists, obtain medical attention.

FIRST AID - EYE CONTACT: In case of contact, immediately flush eyes with large quantities of water for at least 15 minutes until irritation subsides. 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:** Closed containers may burst if exposed to extreme heat or fire. 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, Water Fog

## 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. Contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations. Prevent product from entering drains. Soak up with inert absorbent material and dispose of as hazardous waste. Use personal protective equipment as necessary. Read all product instructions before using. Personal protective equipment should include impervious gloves, protective eye wear, and suitable work clothes. Scrape up dried material and place into containers. Uncured product is very sticky, so carefully remove the bulk of the foam by scraping it up and then immediately remove residue with a rag and solvent such as polyurethane cleaner, mineral spirits, acetone (nail polish remover), paint thinner, etc. Once the product has cured, it can only be removed physically by scraping, buffing, etc. Dispose as plastic waste (foam plastic) in accordance with all applicable guidelines and regulations.

## 7. Handling and Storage

HANDLING: KEEP OUT OF REACH OF CHILDREN!DO NOT TAKE INTERNALLY. Remove all sources of ignition. Make sure nozzle is directed away from yourself prior to discharge. Keep away from open flames, hot surfaces and sources of ignition. Avoid heat, sparks and open flames. Wear appropriate personal protection. Avoid breathing vapor and contact with eyes, skin and clothing. Use only with adequate ventilation. Ensure fresh air entry during application and drying. Do not breathe dust. While dry sanding, use of a NIOSH-approved dust mask is recommended. Empty containers retain product residue (liquid and/or vapor). Vapor can ignite potentially causing an explosion. Wash thoroughly after handling. Contains isocyanates. See information supplied by the manufacturer. Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates.

**STORAGE:** Store away from sources of ignition and heat. Protect material from direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store at temperatures above 120 degrees F. Store containers away from excessive heat and freezing. Store away from caustics and oxidizers.

## 8. Exposure Controls/Personal Protection

| Ingredients with Occupational Exposure Limits   |   |  |   |  |
|---|---|--|---|--|
| <u>Chemical Name</u>  | ACGIH TLV-TWA   | ACGIH-TLV STEL   | <u>OSHA PEL-TWA</u>                     | OSHA PEL-CEILING                                       |
| Polymeric diphenylmethane diisocyanate<br>Tris(2-chloro-1-methylethyl) phosphate<br>4,4'-Methylene diphenyl diisocyanate<br>(MDI) | N.E.<br>N.E.<br>0.005 ppm TWA<br>Methylene bisphenyl<br>isocyanate (MDI)  | N.E.<br>N.E.<br>N.E.   | N.E.<br>N.E.<br>N.E.                    | N.E.<br>N.E.<br>0.02 ppm Ceiling, 0.2<br>mg/m3 Ceiling |
| Dimethyl ether<br>Isobutane   | N.E.<br>N.E.  | N.E.<br>1000 ppm STEL<br>explosion hazard<br>Butane, isomers                                     | N.E.<br>N.E.                            | N.E.<br>N.E.   |
| n-Butane  | N.E.  | 1000 ppm STEL<br>explosion hazard<br>Butane, isomers   | N.E.                                    | N.E.   |
| Ethylene glycol   | 25 ppm TWA vapor<br>fraction  | 50 ppm STEL vapor<br>fraction, 10 mg/m3<br>STEL inhalable<br>particulate matter,<br>aerosol only | N.E.                                    | N.E.   |
| 4,4'-(Oxydi-2,1-ethanediyl)bismorpholine<br>Propane   | N.E.<br>See Appendix F:<br>Minimal Oxygen<br>Content, explosion<br>hazard | N.E.<br>N.E.   | N.E.<br>1000 ppm TWA,<br>1800 mg/m3 TWA | N.E.<br>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:** When concentrations exceed the exposure limits specified, use of a NIOSH-approved dust, mist and fume respirator is recommended. Where the protection factor of the respirator may be exceeded, use of a full facepiece, supplied air, or Self Contained Breathing Apparatus (SCBA) may be necessary. No personal respiratory protective equipment normally required. 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 nitrile, neoprene, or natural rubber gloves. Wear solvent impervious gloves. Wear protective 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:** Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

# 9. Physical and Chemical Properties

| Appearance:                |     | Tan  |
|----------------------------|-----|------|
| Odor:                      |     | Solv |
| Density, g/cm3:            |     | 0.99 |
| Freeze Point, °C:          |     | Not  |
| Solubility in Water:       |     | No I |
| Decomposition Temperature, | °C: | Not  |
| Boiling Range, °C:         |     | N.E. |
| Minimum Flash Point, °C:   |     | Not  |
| Evaporation Rate:          |     | Fast |
| Vapor Density:             |     | Hea  |
| Combustible Dust:          |     | Does |

Solvent 0.99 - 0.99 Not Established No Information Not Established N.E. - N.E. Not Applicable Faster Than n-Butyl Acetate Heavier Than Air Does not support combustion Physical State: Odor Threshold: pH: Viscosity (mPa.s): Partition Coeff., n-octanol/water: Explosive Limits, %: Auto-Ignition Temperature, °C Vapor Pressure, mmHg: Flash Method: Flammability, NFPA:

(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:** Do not breathe dust. Avoid dust formation in confined areas. 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.

**INCOMPATIBILITY:** Open flames, hot surfaces and sources of ignition. Incompatible with strong bases and oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Normal decomposition products, i.e., COx, NOx.

Foam Not Established Not Applicable Not Applicable Not Established Not Established Not Established Not Applicable Aerosol Level II

### **11.** Toxicological Information

**EFFECT OF OVEREXPOSURE - INHALATION:** Vapors may be irritating to eyes, nose, throat, and lungs. Inhalation of high concentrations may cause headache, nausea, and dizziness. Prolonged, repeated, or high exposures may cause irritation to the respiratory tract (nose, mouth, mucous membranes).

**EFFECT OF OVEREXPOSURE - SKIN CONTACT:** May cause sensitization by skin contact. May cause localized irritation, reddening or swelling. Prolonged or repeated exposure may lead to sensitization and/or contact dermatitis. This product has strong adhesive-like characteristics and will adhere aggressively to skin and other surfaces. If accidental contact occurs, follow the appropriate first-aid procedure described in Section 4 of this SDS.

**EFFECT OF OVEREXPOSURE - EYE CONTACT:** Direct eye contact may cause irritation. May cause eye irritation. Mist and vapors may cause eye irritation. Foam contact can cause physical damage due to adhesive character.

EFFECT OF OVEREXPOSURE - INGESTION: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

CARCINOGENICITY: Limited evidence in experimental animals.

**EFFECT OF OVEREXPOSURE - CHRONIC HAZARDS:** Repeated or prolonged exposure may cause respiratory system damage. Repeated contact may cause allergic reactions in very susceptible persons. Prolonged or repeated inhalation of dust may cause lung damage.

PRIMARY ROUTE(S) OF ENTRY: Skin Contact, Inhalation, Eye 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><br>9016-87-9 | Chemical Name<br>Polymeric diphenylmethane diisocyanate | <u>Oral LD50</u><br>49000 mg/kg Rat | <mark>Dermal LD50</mark><br>≥9400 mg/kg Rabbit | Vapor LC50<br>N.I. |
|-----------------------------|---|-------------------------------------|--|--------------------|
| 13674-84-5                  | Tris(2-chloro-1-methylethyl) phosphate                  | 1500 mg/kg Rat                      | >5000 mg/kg Rabbit                             | N.I.               |
| 101-68-8                    | 4,4'-Methylene diphenyl diisocyanate (MDI)              | 31600 mg/kg Rat                     | 9400 mg/kg Rabbit                              | N.I.               |
| 115-10-6                    | Dimethyl ether  | >2000 mg/kg                         | >2000 mg/kg                                    | N.I.               |
| 75-28-5                     | Isobutane   | N.I.                                | N.I.   | 658 mg/L Rat       |
| 106-97-8                    | n-Butane  | Not an exposure route               | Not an exposure rout                           | e 658 mg/L Rat     |
| 107-21-1                    | Ethylene glycol   | 4700 mg/kg Rat                      | 9530 mg/kg Rabbit                              | N.I.               |
| 6425-39-4                   | 4,4'-(Oxydi-2,1-ethanediyl)bismorpholine                | 2000 mg/kg Rat                      | 3036 mg/kg Rabbit                              | N.I.               |
| 74-98-6                     | Propane   | Not an exposure route               | Not an exposure rout                           | e N.I.             |

N.I. = No Information

## 12. Ecological Information

#### ECOLOGICAL INFORMATION: No Information

### 13. Disposal Information

**DISPOSAL INFORMATION:** Residues and spilled material are hazardous waste due to ignitability. Contents under pressure. 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. Liquids cannot be disposed of in a landfill. 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. Before disposing of containers, relieve container of any remaining product and pressure. Empty cylinders, once relieved of all pressure, can be disposed of as non-hazardous waste.

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. Contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations. Prevent product from entering drains. Soak up with inert absorbent material and dispose of as hazardous waste. Use personal protective equipment as necessary. Read all product instructions before using. Personal protective equipment should include impervious gloves, protective eye wear, and suitable work clothes. Scrape up dried material and place into containers. Uncured product is very sticky, so carefully remove the bulk of the foam by scraping it up and then immediately remove residue with a

#### SAP Number:

rag and solvent such as polyurethane cleaner, mineral spirits, acetone (nail polish remover), paint thinner, etc. Once the product has cured, it can only be removed physically by scraping, buffing, etc. Dispose as plastic waste (foam plastic) in accordance with all applicable guidelines and regulations.

## 14. Transport Information

SPECIAL TRANSPORT PRECAUTIONS: No Information

| DOT UN/NA Number:                                | UN1950                   |
|--|--------------------------|
| DOT Proper Shipping Name:<br>DOT Technical Name: | Aerosols, flammable N.A. |
| DOT Hazard Class:                                | 2.1 Flammable gas        |
| Hazard SubClass:                                 | N.A.                     |
| Packing Group:                                   | N.A.                     |

# 15. Regulatory Information

#### SARA SECTION 313:

H334

H335

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:

No Sara 313 components exist in this product.

#### 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.

| 16. Other Informat     | ion   |   |                                      |
|------------------------|---|---|--------------------------------------|
| Revision Date:         | 10/10/2   | 2019  | Supersedes Date: 2/12/2019           |
| Reason for revision:   | 08 - Ex<br>11 - To                              | nce and/or Product Properties C<br>xposure Controls/Personal Protect<br>oxicological Information<br>on Statement(s) Changed |                                      |
| Datasheet produced by: |   | Regulatory Department   |                                      |
| HMIS Ratings:          |   |   |                                      |
| Health:                | Flammability:                                   | Reactivity:   | Personal Protection:                 |
| 2*                     | 4   | 3   | x                                    |
|                        |   | VOC Less Wa   | ater Less Exempt Solvent, g/L: 148.0 |
|                        |   |   | VOC Material, g/L: 148               |
|                        | VOC as De                                       | fined by California Consumer  | Product Regulation, Wt/Wt%: 9.0      |
|                        |   |   | VOC Actual, Wt/Wt%: 15.0             |
| Text for GHS Hazard S  | statements shown in Se                          | ection 3 describing each ingre  | edient:                              |
| H220                   | Extremely flammable ga                          | as.   |                                      |
| H302                   | Harmful if swallowed.                           |   |                                      |
| H315                   | Causes skin irritation.                         |   |                                      |
| H317                   | May cause an allergic s                         |   |                                      |
| H319                   | Causes serious eye irrit<br>Harmful if inhaled. | ation.  |                                      |
| H332                   |   |   | <b>.</b>                             |

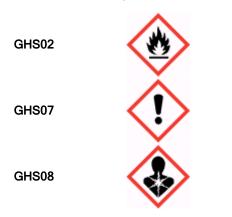
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

SAP Number:

H336May cause drowsiness or dizziness.H351Suspected of causing cancer.H373May cause damage to organs through prolonged or repeated exposure.

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



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

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