


|   |                            |  |
|---|----------------------------|--|
|  | <h1>Safety Data Sheet</h1> | <p><b>24 Hour Emergency Phone Numbers</b><br/> <b>Medical/Poison Control:</b><br/> <b>In U.S.: Call 1-800-222-1222</b></p> <p><b>Outside U.S.: Call your local poison control center</b></p> <p><b>Transportation/National Response Center:</b></p> <p style="text-align: center;"><b>1-800-535-5053</b><br/> <b>1-352-323-3500</b></p> <p>NOTE: The National ResponseCenter 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 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

|                            |   |                           |                                      |
|----------------------------|---|---------------------------|--------------------------------------|
| <b>Product Name:</b>       | Barrier Multi-Project Foam Sealant  | <b>Revision Date:</b>     | 5/7/2020                             |
| <b>Product UPC Number:</b> | 075650125304, 075650125311,<br>075650125328   | <b>Supercedes Date:</b>   | 1/27/2020                            |
| <b>Manufacturer:</b>       | DAP Products Inc.<br>2400 Boston Street Suite 200<br>Baltimore, MD 21224-4723<br>888-327-8477 (non - emergency matters) | <b>Product Use/Class:</b> | Foam Sealant/Adhesive                |
|                            | SDS Coordinator: MSDS@dap.com   | <b>SDS No:</b>            | 4701801                              |
|                            | Emergency Telephone:<br>Transportation: 1-800-535 -5053<br>1-352-323-3500<br>Poison Control: 1-800-222-1222             | <b>Preparer:</b>          | Regulatory and Environmental Affairs |

## 2. Hazards Identification

### GHS Classification

Carc. 2, Comp. Gas, Eye Irrit. 2, Fl Aer, 1, Resp. Sens. 1, Skin Irrit. 2, Skin Sens. 1, STOT RE 2, STOT SE 3 RTI

### Symbol(s) of Product



### Signal Word

Danger

### Possible Hazards

12% 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 Irritation, category 2            | H315 | Causes skin irritation.  |
| Skin Sensitizer, category 1            | H317 | May cause an allergic skin reaction.                                       |
| 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. |
| STOT, single exposure, category 3, RTI | H335 | May cause respiratory irritation.  |
| Carcinogenicity, category 2            | H351 | Suspected of causing cancer.   |
| STOT, repeated exposure, category 2    | H373 | May cause damage to organs through prolonged or repeated exposure.         |

**GHS LABEL PRECAUTIONARY STATEMENTS**

|                |  |
|----------------|--|
| 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.   |
| 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.  |
| 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).  |
| P332+P313      | If skin irritation occurs: Get medical advice/attention.   |
| 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.  |
| P362           | Take off contaminated clothing.  |
| P403+P233      | Store in a well-ventilated place. Keep container tightly closed.   |
| P405           | Store locked up.   |
| P410+P403      | Protect from sunlight. Store in a well-ventilated place.   |
| P410+P412      | Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.  |
| P501           | Dispose of contents/container to ...   |

**GHS SDS PRECAUTIONARY STATEMENTS**

|      |  |
|------|--|
| P363 | Wash contaminated clothing before reuse. |
|------|--|

**3. Composition/Information on Ingredients**

| <u>Chemical Name</u>                       | <u>CAS-No.</u> | <u>Wt. %</u> | <u>GHS Symbols</u> | <u>GHS Statements</u>            |
|--|----------------|--------------|--------------------|----------------------------------|
| Polymeric diphenylmethane diisocyanate     | 9016-87-9      | 15-40        | GHS07              | H332                             |
| Diphenylmethane diisocyanate               | 26447-40-5     | 15-40        | GHS07-GHS08        | H315-317-319-332-334-335-351-373 |
| 4,4'-Methylene diphenyl diisocyanate (MDI) | 101-68-8       | 10-30        | GHS07-GHS08        | H315-317-319-332-334-335-351-373 |
| Tris(2-chloro-1-methylethyl) phosphate     | 13674-84-5     | 5-10         | GHS07              | H302-332                         |
| Dimethyl ether                             | 115-10-6       | 5-10         | No Information     | No Information                   |
| Isobutane                                  | 75-28-5        | 3-7          | GHS07              | H332-336                         |
| 1,4-Dichlorobenzene(P)                     | 106-46-7       | 1-5          | GHS06-GHS07-GHS08  | H302-319-331-351                 |
| Propylene glycols                          | 25322-69-4     | 1-5          | No Information     | No Information                   |
| Propane                                    | 74-98-6        | 1-5          | GHS07              | H332-336                         |
| Carbon black                               | 1333-86-4      | 0.1-1.0      | GHS02-GHS07-GHS08  | H251-335-351                     |

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 Spray or Fog, Water

## 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. 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>                       | <u>ACGIH TLV-TWA</u> | <u>ACGIH-TLV STEL</u> | <u>OSHA PEL-TWA</u> | <u>OSHA PEL-CEILING</u>                         |
|--|----------------------|-----------------------|---------------------|---|
| Polymeric diphenylmethane diisocyanate     | N.E.                 | N.E.                  | N.E.                | N.E.  |
| Diphenylmethane diisocyanate               | N.E.                 | N.E.                  | N.E.                | 0.02 ppm Ceiling, 0.2 mg/m <sup>3</sup> Ceiling |
| 4,4'-Methylene diphenyl diisocyanate (MDI) | 0.005 ppm TWA        | N.E.                  | N.E.                | 0.02 ppm Ceiling, 0.2 mg/m <sup>3</sup> Ceiling |
| Tris(2-chloro-1-methylethyl) phosphate     | N.E.                 | N.E.                  | N.E.                | N.E.  |
| Dimethyl ether                             | N.E.                 | N.E.                  | N.E.                | N.E.  |

|                        |   |                                   |                                 |      |
|------------------------|---|-----------------------------------|---------------------------------|------|
| Isobutane              | N.E.  | 1000 ppm STEL<br>explosion hazard | N.E.                            | N.E. |
| 1,4-Dichlorobenzene(P) | 10 ppm TWA  | Butane, isomers<br>N.E.           | 75 ppm TWA, 450<br>mg/m3 TWA    | N.E. |
| Propylene glycols      | N.E.  | N.E.                              | N.E.                            | N.E. |
| Propane                | See Appendix F:<br>Minimal Oxygen<br>Content, explosion<br>hazard | N.E.                              | 1000 ppm TWA,<br>1800 mg/m3 TWA | N.E. |
| Carbon black           | 3 mg/m3 TWA<br>inhalable particulate<br>matter                    | N.E.                              | 3.5 mg/m3 TWA                   | 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:** 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.



**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

|                                       |                             |   |                  |
|---------------------------------------|-----------------------------|---|------------------|
| <b>Appearance:</b>                    | Orange                      | <b>Physical State:</b>                    | Foam             |
| <b>Odor:</b>                          | Slight Solvent              | <b>Odor Threshold:</b>                    | Not Established  |
| <b>Density, g/cm3:</b>                | 1.02 - 1.02                 | <b>pH:</b>                                | Not Applicable   |
| <b>Freeze Point, °C:</b>              | Not Established             | <b>Viscosity (mPa.s):</b>                 | Not Applicable   |
| <b>Solubility in Water:</b>           | No Information              | <b>Partition Coeff., n-octanol/water:</b> | Not Established  |
| <b>Decomposition Temperature, °C:</b> | Not Established             | <b>Explosive Limits, %:</b>               | N.E. - N.E.      |
| <b>Boiling Range, °C:</b>             | N.E. - N.E.                 | <b>Auto-Ignition Temperature, °C</b>      | Not Established  |
| <b>Minimum Flash Point, °C:</b>       | Not Applicable              | <b>Vapor Pressure, mmHg:</b>              | Not Established  |
| <b>Evaporation Rate:</b>              | Faster Than n-Butyl Acetate | <b>Flash Method:</b>                      | Not Applicable   |
| <b>Vapor Density:</b>                 | Heavier Than Air            | <b>Flammability, NFPA:</b>                | Aerosol Level II |
| <b>Combustible Dust:</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.

**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.

## 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.

**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. 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.

**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> | <u>Chemical Name</u>                       | <u>Oral LD50</u>      | <u>Dermal LD50</u>    | <u>Vapor LC50</u> |
|----------------|--|-----------------------|-----------------------|-------------------|
| 9016-87-9      | Polymeric diphenylmethane diisocyanate     | 49000 mg/kg Rat       | >9400 mg/kg Rabbit    | N.I.              |
| 26447-40-5     | Diphenylmethane diisocyanate               | >10000 mg/kg Rat      | >10000 mg/kg Rabbit   | N.I.              |
| 101-68-8       | 4,4'-Methylene diphenyl diisocyanate (MDI) | 31600 mg/kg Rat       | 9400 mg/kg Rabbit     | N.I.              |
| 13674-84-5     | Tris(2-chloro-1-methylethyl) phosphate     | 1500 mg/kg Rat        | >5000 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      |
| 106-46-7       | 1,4-Dichlorobenzene(P)                     | 500 mg/kg Rat         | 2830 mg/kg Rabbit     | > 5.07 mg/L Rat   |
| 25322-69-4     | Propylene glycols                          | 3750 mg/kg Rat        | N.I.                  | N.I.              |
| 74-98-6        | Propane                                    | Not an exposure route | Not an exposure route | N.I.              |
| 1333-86-4      | Carbon black                               | >15400 mg/kg Rat      | N.I.                  | 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 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

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

## 15. Regulatory Information

### 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:

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 Information

Revision Date: 5/7/2020 **Supersedes Date:** 1/27/2020

Reason for revision: Revision Description Changed  
 Product Composition Changed  
 Substance and/or Product Properties Changed in Section(s):  
 01 - Product Information  
 09 - Physical & Chemical Information

Datasheet produced by: Regulatory Department

### HMIS Ratings:

| Health: | Flammability: | Reactivity: | Personal Protection: |
|---------|---------------|-------------|----------------------|
| 2*      | 4             | 3           | X                    |

VOC Less Water Less Exempt Solvent, g/L: 202.2

VOC Material, g/L: 202

VOC as Defined by California Consumer Product Regulation, Wt/Wt%: 19.77





VOC Actual, Wt/Wt%: 19.8

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

H251 Self-heating: may catch fire.

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.

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

- GHS02 
- GHS06 
- 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.