



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 SDS 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.

| | | | |
|----------------------------|--|-------------------------|--------------------------------------|
| Product Name: | Touch N Seal Fiberglass Liner Bond 1K PU Adhesive Cylinder | Revision Date: | 11/29/2018 |
| Product UPC Number: | 075650171004, 075650171011 | Supercedes Date: | 10/17/2018 |
| Product Use/Class: | Foam Sealant/Adhesive | SDS No: | 00047071508 |
| Manufacturer: | DAP Foam, Inc. 307 Integram Drive Pacific, MO 63069 888-327-8477 (non - emergency matters) | Preparer: | Regulatory and Environmental Affairs |
| | SDS Coordinator: MSDS@dap.com | | |
| | Emergency Telephone: Transportation: 1-800-535-5053 1-352-323-3500 Poison Control: 1-800-222-1222 | | |

2. Hazards Identification

GHS Classification

Acute Tox. 4 Inhalation, Carc. 2, Comp. Gas, Eye Irrit. 2, Resp. Sens. 1, Skin Irrit. 2, Skin Sens. 1, STOT RE 2, STOT SE 3 NE, STOT SE 3 RTI

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

Danger

Possible Hazards

21% of the mixture consists of ingredients of unknown acute toxicity

GHS HAZARD STATEMENTS

| | | |
|--|------|--|
| 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. |
| STOT, single exposure, category 3, NE | H336 | May cause drowsiness or dizziness. |
| 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. |
| 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. |
| 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 | 10-30 | GHS07 | H332 |
| 1,1,1,2-Tetrafluoroethane (HFC-134A) | 811-97-2 | 10-30 | GHS07 | H336 |

| | | | | |
|--|------------|------|----------------|----------------------------------|
| 4,4'-Methylene diphenyl diisocyanate (MDI) | 101-68-8 | 7-13 | GHS07-GHS08 | H315-317-319-332-334-335-351-373 |
| Tris(2-chloro-1-methylethyl) phosphate | 13674-84-5 | 7-13 | GHS07 | H302-332 |
| POLYPROPYLENE GLYCOLS | 25322-69-4 | 7-13 | No Information | No Information |
| 1,2-trans-Dichloroethylene | 156-60-5 | 1-5 | GHS02-GHS07 | H225-302-332 |
| Soya oil | 8001-22-7 | 1-5 | 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: No Information

FIRST AID - SKIN CONTACT: 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: No Information

FIRST AID - INGESTION: No Information

5. Fire-fighting Measures

UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers may burst if exposed to extreme heat or fire.

SPECIAL FIREFIGHTING PROCEDURES: No Information

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: Read all product instructions before using. Personal protective equipment should include impervious gloves, protective eye wear, and suitable work clothes. 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: Make sure nozzle is directed away from yourself prior to discharge. Keep away from open flames, hot surfaces and sources of ignition. 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. 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: 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.

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. |
| 1,1,1,2-Tetrafluoroethane (HFC-134A) | N.E. | N.E. | N.E. | N.E. |
| 4,4'-Methylene diphenyl diisocyanate (MDI) | 0.005 ppm TWA | N.E. | N.E. | 0.02 ppm Ceiling, 0.2 mg/m3 Ceiling |
| Methylene bisphenyl isocyanate (MDI) | | | | |
| Tris(2-chloro-1-methylethyl) phosphate | N.E. | N.E. | N.E. | N.E. |
| POLYPROPYLENE GLYCOLS | N.E. | N.E. | N.E. | N.E. |
| 1,2-trans-Dichloroethylene | 200 ppm TWA | N.E. | N.E. | N.E. |
| Soya oil | N.E. | N.E. | N.E. | 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.



SKIN PROTECTION: Wear protective gloves.



EYE PROTECTION: No Information



OTHER PROTECTIVE EQUIPMENT: No Information



HYGIENIC PRACTICES: Remove and wash contaminated clothing before re-use.

9. Physical and Chemical Properties

| | | | |
|---------------------------------------|-----------------------------|---|-----------------|
| Appearance: | Cream | Physical State: | Foam |
| Odor: | Slight Solvent | Odor Threshold: | Not Established |
| Density, g/cm³: | 0.34 - 0.34 | pH: | Not Applicable |
| Freeze Point, °C: | Not Established | Viscosity (mPa.s): | Not Applicable |
| Solubility in Water: | No Information | Partition Coeff., n-octanol/water: | Not Established |
| Decomposition Temperature, °C: | Not Established | Explosive Limits, %: | N.E. - N.E. |
| Boiling Range, °C: | N.E. - N.E. | Auto-Ignition Temperature, °C | Not Established |
| Minimum Flash Point, °C: | Not Applicable | Vapor Pressure, mmHg: | Not Established |
| Evaporation Rate: | Faster Than n-Butyl Acetate | Flash Method: | Not Applicable |
| Vapor Density: | Heavier Than Air | Flammability, NFPA: | Non-Flammable |
| Combustibility: | 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: No Information

CONDITIONS TO AVOID: Do not breathe dust. Avoid dust formation in confined areas. Excessive heat and freezing.

INCOMPATIBILITY: No Information

HAZARDOUS DECOMPOSITION PRODUCTS: No Information

11. Toxicological Information

EFFECT OF OVEREXPOSURE - INHALATION: Prolonged, repeated, or high exposures may cause irritation to the respiratory tract (nose, mouth, mucous membranes).

EFFECT OF OVEREXPOSURE - SKIN CONTACT: No Information

EFFECT OF OVEREXPOSURE - EYE CONTACT: 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: No Information

CARCINOGENICITY: No Information

EFFECT OF OVEREXPOSURE - CHRONIC HAZARDS: 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> | <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. |
| 811-97-2 | 1,1,1,2-Tetrafluoroethane (HFC-134A) | N.I. | N.I. | 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. |
| 25322-69-4 | POLYPROPYLENE GLYCOLS | 3750 mg/kg Rat | N.I. | N.I. |
| 156-60-5 | 1,2-trans-Dichloroethylene | 1235 mg/kg Rat | 5000 mg/kg Rabbit | N.I. |
| 8001-22-7 | Soya oil | >16500 mg/kg Rat | >2000 mg/kg | >20 mg/L |

N.I. = No Information

12. Ecological Information

ECOLOGICAL INFORMATION: No Information

13. Disposal Information

DISPOSAL INFORMATION: 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. 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.

14. Transport Information

SPECIAL TRANSPORT PRECAUTIONS: No Information

| | |
|----------------------------------|-------------------------------------|
| DOT UN/NA Number: | UN3500 |
| DOT Proper Shipping Name: | Chemical under pressure, n.o.s. |
| DOT Technical Name: | (Fluorinated hydrocarbon, Nitrogen) |
| DOT Hazard Class: | 2.2 Non-flamm compressed 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:

| <u>Chemical Name</u> | <u>CAS-No.</u> |
|--|----------------|
| Polymeric diphenylmethane diisocyanate | 9016-87-9 |
| 4,4'-Methylene diphenyl diisocyanate (MDI) | 101-68-8 |

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: 11/29/2018 **Supersedes Date:** 10/17/2018

Reason for revision: Product Composition Changed
Substance and/or Product Properties Changed in Section(s):
01 - Product Information
05 - Flammability Information
11 - Toxicological Information
16 - Other Information

Datasheet produced by: Regulatory Department

HMIS Ratings:

| Health: | Flammability: | Reactivity: | Personal Protection: |
|----------------|----------------------|--------------------|-----------------------------|
| 2* | 1 | 2 | X |

VOC Less Water Less Exempt Solvent, g/L: 43.9

VOC Material, g/L: 14

VOC as Defined by California Consumer Product Regulation, Wt/Wt%: 4.2

VOC Actual, Wt/Wt%: 4.2

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

| | |
|------|--|
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| 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



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.