

Safety Data Sheet

Material Name: Flexible FAST Dual Tank Part B

Product #: 336341

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name: Flexible FAST Dual Tank Part B

Product Use: Low pressure polyurethane adhesive, Side-B Component, for PROFESSIONAL USE ONLY

Manufacturer Information

Carlisle SynTec Systems
1285 Ritner Highway
Carlisle, PA 17013
USA
Phone: +1-800-479-6832
Emergency Phone #: +1-800-424-9300 (CHEMTREC)

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Gas under Pressure - Compressed gas

Eye Irritation - Category 2A

Acute Toxicity (Oral) - Category 4

Skin Corrosion/Irritation - Category 2

Label Elements

Symbol(s)



Signal Word

Warning

Hazard Statement(s):

| | |
|------|---|
| H280 | Contains gas under pressure; may explode if heated. |
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |

Prevention:

| | |
|------|--|
| P202 | Do not handle until all safety precautions have been read and understood |
| P251 | Pressurized container: Do not pierce or burn, even after use |
| P264 | Wash hands and other skin areas exposed to materials thoroughly after handling |
| P270 | Do not eat, drink or smoke when using this product. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection |

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Response:

| | |
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| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P350+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P321 | Specific treatment: Seek immediate medical advice. Refer to product label and Section 4 of this SDS. |
| P337+P313 | If eye irritation persists: Get medical attention |
| P362 | Take off contaminated clothing and wash before reuse. |

Storage:

| | |
|-------------|--|
| P405 | Store locked up |
| P410 + P403 | Protect from sunlight. Store in a well-ventilated place. |

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Substances

No applicable

Mixtures

Chemical characterization (preparation):

| CAS | Component Name | Percent |
|------------|--|---------|
| 9003-11-6 | polypropylene/ polyethylene glycol copolymer | 30 – 60 |
| 13674-84-5 | tris(2-chloroisopropyl) Phosphate | 15 – 30 |
| 110-63-4 | 1,4-butylene glycol | 5 – 15 |
| 29118-24-9 | Trans-1,3,3,3-tetrafluoropropene-1-ene | 7 – 13 |
| 56-81-5 | glycerol | 1 – 5 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to the health or the environment and hence require reporting in this section.

Section 4 - FIRST AID MEASURES

INHALATION:

If product vapors cause respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen. If respiratory arrest occurs, start artificial respiration by a trained individual. Loosen tight fitting clothing such as a jacket or tie. Seek medical attention immediately.

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EYES:

Immediately flush eyes with large amounts of water for at least 15 minutes, holding the eyes open with fingers and occasionally lifting the upper and lower lids. Use lukewarm water if possible. If present and easy to do, remove contact lenses. If irritation persists, get medical attention.

SKIN:

Flush skin with large amounts of water while removing contaminated clothing. Gently wipe product from skin with a damp cloth and continue rinsing for 15 minutes. Wash clothing before reuse. Call a physician if irritation persists.

INGESTION:

If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

Most important symptoms and effects, both acute and delayed

See section 11.1. Information on toxicological effects.

Notes to the physician

If case of an accident or if you feel unwell, seek medical advice immediately (show label or SDS if possible).

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable methods of extinction: Use dry chemical, carbon dioxide, alcohol resistant foams and water spray.

Unsuitable methods of extinction: None.

Special hazards arising from the substance or mixture

Cylinders, or refillable cylinders may explode due to the buildup of pressure when exposed to extreme heat. Highly toxic gases may be generated by thermal decomposition or combustion. Overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent or may be delayed. Hazardous decomposition products may include and are not limited to: Carbon monoxide, Carbon dioxide, Aldehydes, Oxides of Nitrogen.

Advice for firefighters:

Keep upwind of fire. Wear full fire-fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Use water spray to keep fire-exposed containers cool.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. Ventilate the area.

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Environmental precautions

Avoid dispersal of spilled material or run-off and prevent contact with soil and entry into drains, sewers or waterways.

Methods and material for containment and cleaning up

Cover drains and contain spill. Cover spilled material with a large quantity of inert absorbent. Collect material and place into an approved, open-head metal container. Clean contaminated area with soap and water.

Reference to other sections

For indications about waste treatment, see Section 13
See Section 7 for information about safe handling.

Section 7 - HANDLING AND STORAGE

Precautions for safe handling

For Industrial or professional use only. Observe label precautions, do not use until all safety precautions have been read and understood. Wear all appropriate protective equipment specified in Section 8. Keep cylinders/valves closed when not in use. Recommend using in a well-ventilated area with respiratory protection. Avoid contact with eyes and skin. Keep out of reach of children.

Advice on protection against fire and explosion:

Contents under pressure. Exposure to high temperatures can cause containers to rupture or explode.

Conditions for safe storage, including any incompatibilities

Store in a dry, well-ventilated area and away from incompatible materials (see Section 10.5). Storage temperature is 60-90°F (16-32°C). Products stored below 60°F (16°C) or above 90°F (32°C) must be given adequate time to warm up/cool down. Do not expose the cylinders/kits to open flame or temperatures above 122°F (50°C); storage at elevated temperatures can cause the container to rupture. Excessive heat can cause premature aging of components resulting in a shorter shelf life. Protect unused product from freezing. Storage below 60°F (16°C) may affect foam quality if chemicals are not warmed to room temperature before using. Protect containers from physical abuse. Always store the containers in the upright position. **KEEP OUT OF REACH OF CHILDREN.**

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

| Ingredient | CAS Number | OSHA-PEL | ACGIH-TWA | Other |
|-------------------------------------|------------|----------|-----------|--------------|
| Trans-1,3,3,3-tetrafluoroprop-1-ene | 29118-24-9 | | | WEEL 800 ppm |

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Exposure controls:

Engineering Controls:

Use local and general exhaust ventilation to control levels of exposure.

Eye/face Protection:

Wear protective goggles or safety glasses with side shields.

Hand Protection:

Use chemically resistant gloves (i.e. Nitrile gloves). Nitrile/butadiene rubber, butyl rubber, polyethylene, PVC (vinyl), or neoprene gloves are also effective. Glove selection should take into account potential body reactions to certain materials and manufacturer's instructions for use. Break through time of selected gloves must be greater than the intended use period.

Other Protective Equipment:

Use clothing that protects against dermal exposure. Appropriate protective clothing varies depending on the potential for exposure. To ensure proper skin protection, wear PPE in such a manner that no skin is exposed.

Respiratory Protection:

Respiratory Protection: Atmospheric levels should be maintained below the exposure guidelines. Use products only in a well-ventilated area. Engineering and administrative (work practices) controls should be implemented to protect the workers. If atmospheric levels are expected to exceed the exposure levels, use a NIOSH approved air purifying respirator equipped with an organic vapor cartridge and a particulate filter. If atmospheric levels exceed 10 times the TLV or PEL level for which an air-purifying respirator is effective, use a powered air purifying respirator (PAPR). The type of respiratory protection selected must comply with the requirements set forth in OSHA's Respiratory Protection Standard (29 CFR 1910.134). The odor and irritancy of this material is inadequate to warn of excessive exposure.

Hygiene Measures:

An eye wash station or portable eye wash station should be in the area. Wash hands thoroughly after use, before eating, drinking, or using the lavatory. Employees/Users should be educated and trained in the safe use and handling of this product.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|--|--|--|---------------------------|
| General Physical Form | Amber to dark brown liquid. Forms an off-white to yellowish froth when released from the container | | |
| Odor | Slight ether and amine odor | Odor Threshold | No data available |
| pH | No data available | Melting Point/ Freezing Point | No data available |
| Initial Boiling Point and Boiling Range | Propellant -19°C (-2.2°F) | Flash Point | Propellant does not flash |

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| Evaporation Rate | No data available | Flammability | Not applicable |
| Lower Flammability/ Explosive Limit | Not Available | Upper Flammability/ Explosive Limit | Not Available |
| Vapor Pressure in Container | Not Available | Vapor Pressure of Liquid | Not Available |
| Vapor Density | No data available | Relative Density/ Specific Gravity | ~ 1.2 @ 25°C (Water = 1) |
| Solubility | Water: partly soluble, does not react | Partition coefficient: n-octanol/water | No data available |
| Auto-ignition Temperature | No data available | Decomposition Temperature | No data available |
| Viscosity | No data available | Oxidizing Properties | Not Available |

Section 10 - STABILITY AND REACTIVITY

Reactivity:

No dangerous reaction known under conditions of normal use.

Chemical stability:

Stable under normal conditions of use and recommended storage conditions. See Section 7 for storage recommendations.

Possibility of hazardous reactions:

Exposure to elevated temperatures can cause containers to rupture or explode. Contents are under pressure.

Conditions to avoid:

Temperatures below 60°F (16°C) or temperatures above 90°F (32°C). Avoid heat and flames

Incompatible materials:

Alcohols, strong bases, amines, metal compounds, ammonia, and strong oxidizers

Hazardous decomposition products:

See Section 5.2 for hazardous decomposition products due to combustion.

Section 11 - TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Signs and Symptoms of Exposure based on test data and/or information on the components, this material may produce the following health effects:

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Inhalation:

Mist or vapor may cause irritation of the nose, throat and respiratory tract. Symptoms may include sore throat, coughing, headache, nausea and shortness of breath. Inhalation of propellant may cause lightheadedness, headache, and lethargy.

Skin Contact:

May cause mild skin irritation. Symptoms may include localized redness and discomfort.

Eye Contact:

May cause serious eye irritation. Symptoms may include redness, swelling, stinging, and tearing. May cause temporary corneal injury. Product vapor may cause eye irritation with symptoms of burning and tearing.

Ingestion:

May cause gastrointestinal irritation: stomach distress, nausea, or vomiting. Repeated ingestion may be harmful.

Acute toxicity:

LD/LC50 Values that are relevant for classification: None

Primary irritant effect:

On the eye: Irritating effect

Sensitization: Based on available data, the classification criteria are not met

IARC (International Agency for Research on Cancer): None of the ingredients are listed.

NTP (National Toxicology Program): None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed.

Probable routes of exposure: Inhalation, eye contact and skin contact.

Acute effects (acute toxicity, irritation and corrosivity): Irritating to eyes.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Specific organ toxicity – single exposure

No data available

Specific organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

Other: This product has not been tested. The above information has been derived from the properties of the individual components.

Further Information

None of the components of this product are listed as carcinogens by IARC, ACGIH, NTP or OSHA. No data is available regarding the mutagenicity or teratogenicity of this product, nor is there any available data that indicates that it causes adverse or fertility effects.

Ethylene Glycol: Exposure to vapors of ethylene glycol at room temperature is expected to be minimal.

Handle in accordance with good industrial hygiene and safe practices.

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Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

The ecotoxicity of this product has not been experimentally determined. However, it is expected to have low acute aquatic toxicity based on the acute aquatic toxicity of the individual components and their concentrations in this composition.

Persistence and degradability

Product is readily biodegradable.

Bioaccumulation potential

Product is not expected to bioaccumulate.

Mobility

No data available.

Results of PBT and vPvB assessment

No data available.

Other adverse effects

Additional ecological information: Do not allow material to run into surface waters, wastewater, or soil. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13 - DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Always wear proper protective equipment as you would while spraying the two-component foam in a well-ventilated area.

Procedure for handling empty or partially used disposable cylinders (not returnable):

1. DO NOT INCINERATE CYLINDERS.
2. Empty cylinders by dispensing the foam into a waste container like a cardboard box or plastic bag. Depressurize the used cylinders using the dispensing unit with a new nozzle attached. Spray the foam until one of the components/cylinders no longer sprays chemical.
3. Remove the nozzle and then continue to depressurize by dispensing the remaining chemical(s) into a waste container (a box lined with a plastic bag) that has adequate industrial liquid absorbing medium in the bottom. Dispense the residual chemicals until the pressure is down to a minimum or there are just large bubbles in the hose.
4. Close the cylinder valves completely, and then operate the dispensing unit again to empty and depressurize the hoses. Use a 9/16" wrench and remove the hoses from the cylinders. Use caution in case there is some residual chemical and/or pressure in the hoses.
5. Invert the cylinder and point away from face. Slowly open the cylinder over the waste container to catch any residual spray.
6. Return the cylinder to an upright position. Shake the container; there should not be any sloshing of liquid. Make sure to leave valves OPEN-do not close. DO NOT PUNCTURE.
7. The user of this material has the responsibility to dispose of empty cylinders, unused material and residues in compliance to all applicable federal, state, international and local regulations

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regarding the treatment, storage, and disposal for hazardous and nonhazardous wastes. Check with your local waste disposal service for guidance.

NOTE: After dispensing if one cylinder has chemical left in it, treat as hazardous material.

Procedure for handling empty refillable cylinders:

THESE CYLINDERS ARE RETURNABLE. These cylinders are shipped back to be cleaned, refilled, and redistributed. Return instructions are included in or on the A-cylinder collar.

Section 14 - TRANSPORT INFORMATION

Note: Transportation information is for reference only. Customer is urged to consult 49 CFR 100-177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

| | |
|---------------|--|
| Ground | UN3500 Chemical Under Pressure n.o.s. (Hydrofluoroolefin, nitrogen) 2.2 (Non-Flammable Gas Label) |
| Air | UN3500 Chemical Under Pressure n.o.s. (Hydrofluoroolefin, nitrogen) 2.2 (Non-Flammable Gas Label) Packing Instruction (Cargo & Passenger) 218 |
| Water | UN3500 Chemical Under Pressure n.o.s. (Hydrofluoroolefin, nitrogen) 2.2 (Non-Flammable Gas Label) |

Section 15 - REGULATORY INFORMATION

Safety, health, and environmental regulations/legislations specific for the substance or mixture

U.S. Federal Regulations:

OSHA Hazard Communication Standard: This materials is classified as hazardous in accordance with OSHA 29 CFR 1910-1200

TSCA Status: All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory. This product is not subject to TSCA 12(b) Export Notification.
US TSCA Chemical Substance Inventory – Interim List of Active Substances

Superfund Amendments and Reauthorization Act (SARA)

SARA Section 311/312 Hazard Categories: Acute Health Hazard, Sudden Release of Pressure Hazard

SARA 302/304 Extremely Hazardous Substance: No components of the product exceed the threshold (de minimis) reporting levels established by these sections of the Title III of SARA.

SARA 302/304 Emergency Planning & Notification: No components of the product exceed the threshold (de minimis) report levels established by these sections of the Title III of SARA.

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Comprehensive Response Compensation and Liability Act (CERCLA): None of the substances in this product are contained in levels that exceed the threshold (de minimis) reporting levels established by CERCLA

Clean Air Act (CAA) – This product does not have any components listed as a Hazardous Air Pollutant (HAP) designated in CAA Section 112 (b). This product does not contain any Class 1 or Class 2 Ozone depleters.

Clean Water Act (CWA) – This product does not have any components listed as a Hazardous Substance under the CWA. None of the chemicals in these products are listed as Priority Pollutants under the CWA. None of the chemicals listed in these products are listed as Toxic Pollutants under the CWA.

U.S. State Regulations:

Global Chemical Inventory Lists:

United States: Toxic Substance Control Act (TSCA)- Yes

Section 16 - OTHER INFORMATION

NFPA Ratings

Health: 2; Fire: 1; Reactivity: 1

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Severe 4 = Extreme

HMIS Ratings

Health: 2; Fire: 1; Reactivity: 1

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Severe 4 = Extreme

Summary of Changes

Revision Date: December 31, 2020

Revision Note: General Update

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term

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Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

Other Information

Disclaimer:

The information contained herein is based upon data and information available to us, and reflects our best professional judgment. This product may be formulated in part with components purchased from other companies. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information. The results to be obtained from the use thereof, or that any such use does not infringe any patent, since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not assume responsibility for the results of such application. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use.