



### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY INFORMATION

#### **Product Identification**

- Trade Name: Blend Tech Solutions Joint Filler STnic-23 A
- Product Use: Concrete Joint Filler
- Restriction on Use: Intended for industrial and professional users

#### **Company Information**

- Blend Tech Solutions
- 12850 Highway 287  
Fort Worth, TX 76052
- 608-301-7224

#### **Prepared by Department of Environmental, Health and Safety Emergency Number – (served 24 hours)**

- SPILLTECH (323) 908-3952

### 2. HAZARDS IDENTIFICATION

Classification of substance or mixture:

#### **GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):**

- Health, Respiratory or skin sensitization, 1 Respiratory
- Health, Respiratory or skin sensitization, 1 Skin
- Health, Skin corrosion/irritation, 2
- Health, Carcinogenicity, 2
- Health, Serious Eye Damage/Eye Irritation, 2 A
- Health, Specific target organ toxicity - Single exposure, 3
- Health, Acute toxicity, 5 Oral

**Label elements:** This material requires a hazard warning label in accordance with GHS criteria

Pictogram:



Signal Word: **DANGER**

#### **Hazard statement(s):**

- H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H317 - May cause an allergic skin reaction
- H315 - Causes skin irritation
- H351 - Suspected of causing cancer.
- H319 - Causes serious eye irritation
- H336 - May cause drowsiness or dizziness
- H303 - May be harmful if swallowed



### **Precautionary statement(s):**

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P264 - Wash exposed skin thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P284 - Wear respiratory protection.

P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor/physician.

P330 - Rinse mouth.

P501 - Dispose of contents/container to a licensed waste disposal facility.

### **Hazards not otherwise classified:**

**Route of Entry:** Eyes; Ingestion; Inhalation; Skin;

**Target Organs:** Respiratory system; Skin; Eyes;

- **Inhalation:** At room temperature, MDI vapors are minimal due to low vapor pressure. However, heating, spraying, foaming, or otherwise mechanically dispersing (drumming, venting or pumping) operations may generate vapor or aerosol concentrations sufficient to cause irritation or other adverse effects. Excessive exposure may cause irritation of the eyes, upper respiratory tract and lungs. Severe overexposure may lead to pulmonary edema. May cause respiratory sensitization with asthma-like symptoms in susceptible individuals. MDI concentrations below the exposure guidelines may cause allergic respiratory reactions in individuals already sensitized. Symptoms may include coughing, dryness of throat, headache, nausea, difficult breathing and a feeling of tightness in the chest. Effects may be delayed. Impaired lung function (decreased ventilator capacity) has been associated with overexposure to isocyanates

Chronic: As a result of previous repeated overexposures or a single large dose, certain individuals develop isocyanate sensitization (chemical asthma) or tissue injury in the upper respiratory tract. Animal tests indicate skin contact alone may also lead to allergic respiratory reaction. These effects may be permanent. Any person developing asthmatic reaction or other sensitization should be removed from further exposure.

- **Skin Contact:** Product is a skin sensitizer. Causes irritation with symptoms of reddening, itching and swelling. Prolonged or repeated exposure can cause skin irritation, reddening, dermatitis, and in some individuals, sensitization. Skin contact may result in allergic skin reactions or respiratory sensitization, but is not expected to result in absorption of amounts sufficient to cause other adverse effects. May stain skin. Cured material is difficult to remove.

- **Eye Contact:** As a liquid, vapor, aerosol or dust, may cause irritation, inflammation, and/or damage to sensitive eye tissue. Symptoms include reddening, tearing, stinging and swelling. May cause corneal injury. Prolonged contact may cause conjunctivitis.

- **Ingestion:** Single dose oral toxicity is considered to be extremely low. Can result in irritation and corrosive action in the mouth, stomach tissue and digestive tract. Symptoms can include nausea, vomiting, sore throat, abdominal pain and diarrhea. Ingestion is not an applicable route of entry for intended use.





### 3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Components:		
Chemical Name:	CAS#:	Content:
Methylenediphenyl diisocyanate	101-68-8	20 - 40%
Benzene, methylenebis	26447-40-5	20 - 40%
Benzene, methylenebis [isocyanato-homopolymer]	39310-05-9	5 - 25%

### 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility immediately.

**Eyes:** Flush with large amounts of water for 15 minutes. Materials containing MDI may react with the moisture in the eye forming a thick material that is difficult to remove. Get immediate medical attention.

**Skin:** Wash off in flowing warm water or shower with soap. Remove and wash contaminated clothing and discard contaminated shoes. For severe exposure, get under safety shower after removing clothing, then seek medical attention. If redness, itching or a burning sensation develops or persists after the area is washed, consult a physician.

**Ingestion:** DO NOT INDUCE VOMITING. Give 1-2 cups of milk or water to drink. Never give anything by mouth to an unconscious person. Seek medical attention.

### 5. FIREFIGHTING MEASURES

**Suitable extinguishing media:** Use extinguishing media suitable for surrounding fire

**Unsuitable extinguishing media:** Water jet

**Specific hazards in case of fire:** carbon dioxide, carbon monoxide, harmful vapors, nitrogen oxides, fumes/ smoke, carbon black

**Special protective equipment required for firefighting:** Wear self-contained breathing apparatus (SCBA)

**Additional information for firefighters:** None

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

- Evacuate and isolate spill area. Remove any ignition sources. With adequate ventilation and appropriate personal protective equipment, cover the area with an inert absorbent material such as clay or vermiculite and transfer to metal waste containers. Move container to a well ventilated area (outside), but do not seal the container with the isocyanate mixture. Larger quantities of liquid may be transferred directly to drums for disposal. Decontaminate or discard all clean-up equipment.

NOTE: ISOCYANATES WILL REACT WITH WATER AND GENERATE CARBON DIOXIDE. THIS COULD RESULT IN THE RUPTURE OF ANY CLOSED CONTAINERS.



### **Material containment and clean up:**

- The area should then be flushed with a decontamination solution. The decontamination solution is a 5-10% mixture of sodium carbonate and 0.5% liquid detergent in water solution or a 3-8% concentrated ammonium hydroxide and 0.5% liquid detergent in water. Use 10 parts decontamination solution to 1 part spilled material. If the ammonium hydroxide solution is used, ammonia will be evolved as a vapor. Use caution to avoid exposure to high concentrations of ammonia. Allow to stand for 48 hours letting evolved carbon dioxide escape.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Use personal protective equipment when transferring material to or from drums, totes or other containers. The reaction of polyols and isocyanates generates heat. Contact of the reacting materials with skin or eyes can cause irritation and may be difficult to remove from the affected areas. Do not smoke or use naked lights, open flames, space heaters, or other ignition sources near pouring, frothing or spraying operations.

**Special Emphasis for Spray Applications:** Inspect the application area from the potential to expose other persons or for overspray to drift onto buildings, vehicles or other property. When spraying building exteriors, persons entering or exiting the building as well as those inside could be exposed to polyisocyanates due to wind conditions, open windows or air intakes. Do not begin application work until these potential problems have been corrected.

**Information about safe storage:** When stored between 15 and 30°C (60 and 85°F) in dry place in tightly sealed containers, typical shelf life is 6 months or more from the date of manufacture. Consult technical data sheet for shelf life requirements affecting performance quality. Should freezing occur, the material must be thawed thoroughly and mixed until uniform. Opened containers must be handled properly to prevent moisture pickup. Do not reseal if contamination is suspected.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

**Additional information about exposure controls:** When stored between 15 and 30°C (60 and 85°F) in dry place in tightly sealed containers, typical shelf life is 6 months or more from the date of manufacture. Consult technical data sheet for shelf life requirements affecting performance quality. Should freezing occur, the material must be thawed thoroughly and mixed until uniform. Opened containers must be handled properly to prevent moisture pickup. Do not reseal if contamination is suspected.

### **PPE (personal protective equipment) and hygienic measures:**

- Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a fullface supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
- Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands
- Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).





- Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **General Information:**

- Physical state: Liquid
- Odor: Musty
- Odor Threshold: Not available
- Appearance: Non-pigmented liquid

#### **Physical properties:**

- pH value (@70°F): Not available
- Specific gravity (@70°F): Not available
- Bulk density: 9.04 lbs/gallon
- Boiling point: >354°F
- Freezing point/Melting point: 60°F
- Decomposition temperature: Not available
- Vapor pressure: Not available
- Vapor density: >1
- Evaporation rate: <1
- VOC (w/w): 0%
- Solubility in / Miscibility with water: Not soluble in water; REACTS with water releasing carbon dioxide.
- Partition Coefficient (n-octanol/water): Not available
- Auto ignition: NDA
- Flash point: >150°F
- Lower / Upper Flammability Limits: Not applicable
- Viscosity: approx. 800 cps

### 10. STABILITY AND REACTIVITY

**Chemical stability:** Polyisocyanates are highly reactive chemicals that should be handled and stored in a way to avoid many common substances, including water and moisture. Product is stable under normal conditions.

**Conditions to avoid:** Moisture and/or water. High temperatures, sparks, flame and temperature above 350°F.

**Materials to avoid:** Water; strong bases; alcohols; amines; metal compounds;

**Hazardous decomposition:** By fire or excessive heat: carbon monoxide, carbon dioxide, oxides of nitrogen, traces of hydrogen cyanide, ammonia and MDI vapors. Excess gas may rupture containers.

**Hazardous polymerization:** May occur with incompatible reactants, especially strong bases, water or temperatures over 320°F (50°C).



### 11. TOXICOLOGICAL INFORMATION

Routes for exposure for solids and liquids are ingestion and inhalation, but may include eye and skin contact.

**Acute toxicity:** This product has not been tested for toxicity. Based on data derived from individual components the classification criteria are not met. No adverse health effects are expected with intended use and appropriate handling.

- Oral: LD50 Oral - rat - 4,700 mg/kg
- Inhalation: LC50 Dermal LD50 no data available
- Serious eye damage/eye irritation: Eyes - rabbit - Moderate eye irritation
- Respiratory or skin sensitization: no data available
- May cause allergic respiratory and skin reactions
- Germ cell mutagenicity: Laboratory experiments have shown mutagenic effects.
- Genotoxicity in vitro - Human - lymphocyte Sister chromatid exchange
- Genotoxicity in vivo - rat - Inhalation DNA damage

**Chronic toxicity:** This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

- IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Diphenylmethane - 4,4- diisocyanate)
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
- Reproductive toxicity: Reproductive toxicity - rat -
- Inhalation: Not available
- Maternal Effects: Other effects.
- Specific Developmental Abnormalities: Musculoskeletal system.
- Teratogenicity: no data available
- Specific target organ toxicity - single exposure (Globally Harmonized System): May cause respiratory irritation.
- Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available
- Aspiration hazard: no data available
- Potential health effects: Inhalation May be fatal if inhaled. Causes respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation.
- Signs and Symptoms of Exposure: Cough, Shortness of breath, Headache, Nausea, Vomiting, Pulmonary edema. Effects may be delayed.
- Synergistic effects: no data available
- Additional Information: RTECS: NQ9350000



### 12. ECOLOGICAL INFORMATION

Components:		
Chemical Name:	CAS#:	Content:
Methylenediphenyl diisocyanate	101-68-8	20 - 40%

**Ecotoxicity:** Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 0.35 mg/l - 24 h. and other aquatic invertebrates

**Persistence and degradability:** no data available

**Bioaccumulative potential:** no data available

**Mobility in soil:** no data available

**PBT and vPvB assessment:** no data available

**Other adverse effects:** Do not empty into drains.

### 13. DISPOSAL CONSIDERATIONS

Any disposal practice must be in compliance with all federal, state and local laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate. Waste characterization and disposal compliance are the responsibility solely of the party generating the waste or deciding to discard or dispose of the material. Do not allow material to enter sewers, a body of water, or contact the ground. Refer to RCRA 40 CFR 261, and/or any other appropriate federal, state or local requirements for proper classification information.

### 14. TRANSPORT INFORMATION

DOT - Non DOT/non RCRA regulated

IATA/IMDG/ICAO - Not dangerous goods

### 15. REGULATORY INFORMATION

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Components:		
Chemical Name:	CAS#:	Content:
Methylenediphenyl diisocyanate	101-68-8	20 - 40%
Benzene, methylenebis	26447-40-5	20 - 40%
Benzene, methylenebis [isocyanato-homopolymer]	39310-05-9	5 - 25%





### 16. OTHER INFORMATION

- NFPA: Health = 2, Fire = 1, Reactivity = 1, Specific Hazard = None
- HMIS III: Health = 2, Fire = 1, Physical Hazard = 1
- HMIS PPE: X - Consult your supervisor for special instructions



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