

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/09/2018

Reviewed on 04/05/2018

1 Identification

- **Product identifier**
- **Trade name:** Hi-Tech Spall TX Gel "B"
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Progressive Fastening Systems Inc.
 Hi-Tech Systems
 1190 N. Del Rio Place
 Ontario, CA 91764
- **Information department:** Product Safety Department
- **Emergency telephone number:**

Phone (909) 945-5530
 Fax (909) 945-3009
www.hitechpolyurea.com

INFOTRAC (24 HOURS) USA 1-800-535-5053 / INTERNATIONAL 1-352-323-3500 USE ONLY FOR HAZARDOUS MATERIALS (OR DANGEROUS GOODS) INCIDENT - SPILLS, LEAKS, FIRE, EXPOSURE, OR ACCIDENT CN109479

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Flam. Liq. 4 H227 Combustible liquid.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS05



GHS07



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
 4,4'-methylenebis(cyclohexylamine)
 Solvent naphtha (petroleum) heavy aliph.
 diethylmethylbenzenediamine
 Distillates (petroleum), hydrotreated light

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- **Hazard statements**

Combustible liquid.
 Harmful if swallowed.
 Causes skin irritation.
 Causes serious eye damage.
 May cause damage to organs through prolonged or repeated exposure.
 May be fatal if swallowed and enters airways.

- **Precautionary statements**

Keep away from flames and hot surfaces. – No smoking.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If swallowed: Immediately call a poison center/doctor.
 Specific treatment (see on this label).
 Do NOT induce vomiting.
 If on skin: Wash with plenty of water.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing.
 Get medical advice/attention if you feel unwell.
 Rinse mouth.
 Take off contaminated clothing and wash it before reuse.
 If skin irritation occurs: Get medical advice/attention.
 In case of fire: Use for extinction: CO₂, powder or water spray.
 Store in a well-ventilated place. Keep cool.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 3
 Fire = 2
 Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = *3
 Fire = 2
 Reactivity = 0

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

64742-96-7	Solvent naphta (petroleum) heavy aliph.	>10-≤25%
	⚠ Asp. Tox. 1, H304	

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64742-47-8	Distillates (petroleum), hydrotreated light ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304	>10-≤25%
68479-98-1	diethylmethylbenzenediamine ⚠ STOT RE 2, H373; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Eye Irrit. 2A, H319	>2.5-<10%
1761-71-3	4,4'-methylenebis(cyclohexylamine) ⚠ Acute Tox. 3, H301; ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318	≥3-<5%

4 First-aid measures

- **Description of first aid measures**
- **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Immediately call a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** water spray, dry powder, carbon dioxide, foam
- **Special hazards arising from the substance or mixture**
Hazards during fire-fighting:
nitrous gases, fumes/smoke, isocyanate, vapour
- **Advice for firefighters**
- **Protective equipment:**
Firefighters should be equipped with self-contained breathing apparatus and turn out gear.
- **Additional information**
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Do not allow to penetrate the ground/soil.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Dispose of the collected material according to regulations.
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

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- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

- **PAC-1:**

102-60-3	1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	34 mg/m ³
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- **PAC-2:**

102-60-3	1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	370 mg/m ³
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- **PAC-3:**

102-60-3	1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	2,200 mg/m ³
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7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure thorough ventilation of stores and work area. Protect against moisture.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **Conditions for safe storage, including any incompatibilities**
Segregate from foods and animal feeds. Segregate from acids and bases.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Carbon Steel, (Iron), High density polyethylene (HDPE), Low density polyethylene (LDPE)
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the skin.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Liquid
Color:	Amber colored
Odor:	slight odour
Odor threshold:	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	200 °C (392 °F)

· **Flash point:** 61 °C (141.8 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 210 °C (410 °F)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Not determined.

· **Explosion limits:**

Lower:	0.5 Vol %
Upper:	6.5 Vol %

· **Vapor pressure at 20 °C (68 °F):** 2 hPa (1.5 mm Hg)

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· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
VOC content:	0.00 % 0.0 g/l / 0.00 lb/gl
Solids content:	86.4 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions**
Contact with certain rubbers and plastics can cause brittleness of the substance/product with subsequent loss in strength.
Exothermic reaction. Reacts with strong acids and alkalis. Reacts with oxidizing agents.
- **Conditions to avoid**
Temperature < 0 degrees Celsius
Avoid moisture
- **Incompatible materials:**
acids, oxidizing agents, isocyanates
acids, amines, alcohols, water, Alkalines, strong bases, Products that react with isocyanates
- **Hazardous decomposition products:**
aromatic isocyanates, gases/vapours
carbon monoxide, carbon dioxide, nitrogen oxide, hydrogen cyanide

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

ATE (Acute Toxicity Estimate)

Oral	LD50	1,937 mg/kg
Dermal	LD50	>44,000 mg/kg (rat)

68479-98-1 diethylmethylenediamine

Oral	LD50	738 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Irritant
- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)
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None of the ingredients is listed.

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

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Incinerate in a licensed facility. Dispose of in a licensed facility. Do not discharge substance/product into sewer system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

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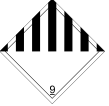

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14 Transport information

<ul style="list-style-type: none"> · UN-Number · DOT · IMDG, IATA 	<p style="margin: 0;"><i>not regulated</i></p> <p style="margin: 0;"><i>UN3082</i></p>
<ul style="list-style-type: none"> · UN proper shipping name · DOT · IMDG · IATA 	<p style="margin: 0;"><i>not regulated</i></p> <p style="margin: 0;"><i>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (diethylmethylbenzenediamine), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (diethylmethylbenzenediamine)</i></p>
<ul style="list-style-type: none"> · Transport hazard class(es) · DOT · Class 	<p style="margin: 0;"><i>not regulated</i></p>
<ul style="list-style-type: none"> · IMDG, IATA 	<div style="display: flex; align-items: center; gap: 10px;">   </div>
<ul style="list-style-type: none"> · Class · Label 	<p style="margin: 0;"><i>9 Miscellaneous dangerous substances and articles</i></p> <p style="margin: 0;"><i>9</i></p>
<ul style="list-style-type: none"> · Packing group · DOT · IMDG, IATA 	<p style="margin: 0;"><i>not regulated</i></p> <p style="margin: 0;"><i>III</i></p>
<ul style="list-style-type: none"> · Environmental hazards: · Marine pollutant: · Special marking (IATA): 	<p style="margin: 0;"><i>Product contains environmentally hazardous substances: diethylmethylbenzenediamine</i></p> <p style="margin: 0;"><i>Symbol (fish and tree)</i></p> <p style="margin: 0;"><i>Symbol (fish and tree)</i></p>
<ul style="list-style-type: none"> · Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Category 	<p style="margin: 0;"><i>Warning: Miscellaneous dangerous substances and articles</i></p> <p style="margin: 0;"><i>90</i></p> <p style="margin: 0;"><i>F-A,S-F</i></p> <p style="margin: 0;"><i>A</i></p>
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	<p style="margin: 0;"><i>Not applicable.</i></p>
<ul style="list-style-type: none"> · Transport/Additional information: 	
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	<p style="margin: 0;"><i>5L</i></p> <p style="margin: 0;"><i>Code: E1</i></p> <p style="margin: 0;"><i>Maximum net quantity per inner packaging: 30 ml</i></p> <p style="margin: 0;"><i>Maximum net quantity per outer packaging: 1000 ml</i></p>
<ul style="list-style-type: none"> · UN "Model Regulation": 	<p style="margin: 0;"><i>UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (DIETHYLMETHYLBENZENEDIAMINE), 9, III</i></p>

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15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS05

GHS07

GHS08

· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

4,4'-methylenebis(cyclohexylamine)

Solvent naphtha (petroleum) heavy aliph.

diethylmethylbenzenediamine

Distillates (petroleum), hydrotreated light

· **Hazard statements**

Combustible liquid.

Harmful if swallowed.

Causes skin irritation.

Causes serious eye damage.

May cause damage to organs through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

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· **Precautionary statements**

- Keep away from flames and hot surfaces. – No smoking.*
 - Do not breathe dust/fume/gas/mist/vapors/spray.*
 - Wash thoroughly after handling.*
 - Do not eat, drink or smoke when using this product.*
 - Wear protective gloves/protective clothing/eye protection/face protection.*
 - If swallowed: Immediately call a poison center/doctor.*
 - Specific treatment (see on this label).*
 - Do NOT induce vomiting.*
 - If on skin: Wash with plenty of water.*
 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
 - Get medical advice/attention if you feel unwell.*
 - Rinse mouth.*
 - Take off contaminated clothing and wash it before reuse.*
 - If skin irritation occurs: Get medical advice/attention.*
 - In case of fire: Use for extinction: CO₂, powder or water spray.*
 - Store in a well-ventilated place. Keep cool.*
 - Store locked up.*
 - Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Environment protection department.
- **Contact:** Safety Department
- **Date of preparation / last revision** 04/09/2018 / 6
- **Abbreviations and acronyms:**
 - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 - IMDG: International Maritime Code for Dangerous Goods
 - DOT: US Department of Transportation
 - IATA: International Air Transport Association
 - ACGIH: American Conference of Governmental Industrial Hygienists
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - ELINCS: European List of Notified Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - NFPA: National Fire Protection Association (USA)
 - HMIS: Hazardous Materials Identification System (USA)
 - VOC: Volatile Organic Compounds (USA, EU)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
 - NIOSH: National Institute for Occupational Safety
 - OSHA: Occupational Safety & Health
 - TLV: Threshold Limit Value
 - PEL: Permissible Exposure Limit
 - REL: Recommended Exposure Limit
 - Flam. Liq. 3: Flammable liquids – Category 3
 - Flam. Liq. 4: Flammable liquids – Category 4
 - Acute Tox. 3: Acute toxicity – Category 3
 - Acute Tox. 4: Acute toxicity – Category 4
 - Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 - Skin Irrit. 2: Skin corrosion/irritation – Category 2
 - Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 - Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

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STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

· *** Data compared to the previous version altered.**

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