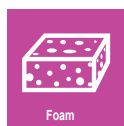


# F70N

# NON-FLAM PRESSURE-SENSITIVE ADHESIVE

DATA SHEET

**TensorGrip**<sup>®</sup>



As part of our **FOAM & FABRIC** range, **F70N** is a web spray adhesive designed for use in Domestic Furniture, Office Furniture and Mattress applications using the substrates listed.

## PRODUCT DESCRIPTION

**TensorGrip<sup>®</sup> F70N** is a powerful pressure-sensitive adhesive developed specifically for pressure-sensitive bonding of porous and somewhat difficult substrates. **TensorGrip<sup>®</sup> F70N** offers fast dry and high tack while still allowing repositionability and retaining lasting tackiness.

### ADVANTAGES

- 100% Non-flammable
- VOC free
- Fast dry, high tack, long open time
- 170°F (77°C) temperature resistant
- 80% of final strength immediately
- Very aggressive PSA
- Repositionable
- Excellent green strength and high heat resistance
- No ODS (Ozone Depleting Substances)

## DIRECTIONS FOR USE

- **TensorGrip<sup>®</sup> F70N** is designed as a portable, self-contained spray system for field or shop applications.
- Apply adhesive to both surfaces to be mated, at 80% to 100% coverage. Spraying both surfaces will result in a stronger, more permanent bond.
- Allow enough time (2-4 minutes or until dry to the touch) for the adhesive to become tacky before bonding.
- Parts should be mated with as much pressure as practical. Normal coverage required with web spray pattern is approximately 80%; however, porous surfaces may need a second coat.
- Initial bond is strong enough to allow cutting or trimming immediately, although ultimate strength is achieved in 1-3 days.
- Canister system will spray adequately above 60° F. Canister system should be kept in warm area. In the event that the canister gets abnormally chilled, freezes or gives poor or sputtering spray, it should be warmed up before continued usage. Warming canister by immersion in warm water is recommended.
- Notice!!! Do not store at temperatures over 120° F.

### CANISTER STORAGE/CHANGE OVER

- If you choose to leave the hose and spray gun on the canister, leave the valve on the canister open. Do not disconnect the hose/gun from the canister. Close and lock the spray gun.
- To change or disconnect canister: turn canister valve to the off position, spray out remaining adhesive left in the hose, disconnect the spray hose and gun from the canister.
- Reconnect the spray hose to a new canister of adhesive. OR if you are NOT connecting to a new canister, connect hose to canister of cleaning solvent (sold separately) and spray out until liquid is clear which indicates that the hose and gun is clean.

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# NON-FLAM PRESSURE-SENSITIVE ADHESIVE

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## CHEMICAL TECHNICAL DATA

### TYPICAL PROPERTIES

- |                       |                                       |
|-----------------------|---------------------------------------|
| • Total Solids        | 29-35%                                |
| • VOC Content         | 0 g/L                                 |
| • Color               | Blue, Clear                           |
| • System Flammability | 100% Non-Flammable                    |
| • Solvent System      | Methylene Chloride                    |
| • Dry time            | 3-5 mins dependent on temp & humidity |
| • Open time           | Long                                  |
| • Shelf Life          | 18 months from date of manufacture    |

### PACKAGING

- |        |                     |
|--------|---------------------|
| • 22L  | Disposable Canister |
| • 108L | Returnable Canister |
| • 216L | Returnable Canister |

## STORAGE

### HANDLING & STORAGE

- Consult Material Safety Data Sheet prior to use.
- Do not store at temperatures over 120°F/50°C.
- Avoid exposure to direct sunlight.
- Do not store directly on concrete floor.
- Always store above 60°F/15°C
- When connected, keep valve open and hose pressurized at all times
- Always test our adhesives to determine suitability for your particular application prior to use in production

DISCLAIMER OF WARRANTY: Quin Global makes neither warranty of merchantability or fitness for any use nor any other warranty, express or implied, in the sales of its products. Buyer assumes all risk and liability for the results obtained by the use of its products, whether used singly or in combination with other products.

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## SAFETY DATA SHEET

### Tensorgrip F70N Non-Flam Agressive Pressure Sensitive Adhesive

#### 1. Identification

##### Product identifier

**Product name** Tensorgrip F70N Non-Flam Agressive Pressure Sensitive Adhesive

**Product number** USA

##### Recommended use of the chemical and restrictions on use

**Application** Canister Spray Adhesive

##### Details of the supplier of the safety data sheet

**Supplier** Quin Global  
5710 F St  
(402) 731 3636  
(402) 731 1473  
marketing.us@quin-global.com

##### Emergency telephone number

**Emergency telephone** Chemtrec: 1 800 424 9300 (Mon - Fri) 09:00 - 16:00

#### 2. Hazard(s) identification

##### Classification of the substance or mixture

**Physical hazards** Aerosol 3 Press. Gas, Compressed - H280

**Health hazards** Acute Tox. 3 - H301 Acute Tox. 4 - H312 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Carc. 2 - H351 STOT SE 3 - H335, H336 STOT RE 2 - H373

**Human health** The liquid may be irritating to eyes, respiratory system and skin. Symptoms following overexposure may include the following: Headache. Dizziness. Nausea, vomiting.

##### Label elements

##### Pictogram



##### Signal word

Danger

##### Hazard statements

H280 Contains gas under pressure; may explode if heated.  
H301 Toxic if swallowed.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
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.

## Tensorgrip F70N Non-Flam Aggressive Pressure Sensitive Adhesive

<b>Precautionary statements</b>	<p>P261 Avoid breathing vapor/spray.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P302+P352 If on skin: Wash with plenty of water.</p> <p>P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308+P313 If exposed or concerned: Get medical advice/attention.</p> <p>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.</p>
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<b>Contains</b>	Methylene Chloride
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### Other hazards

This product does not contain any substances classified as PBT or vPvB.

### 3. Composition/information on ingredients

#### Substances

#### Mixtures

<b>Methylene Chloride</b>	<b>60-100%</b>
CAS number: 75-09-2	
<b>Classification</b>	
Acute Tox. 3 - H301	
Acute Tox. 4 - H312	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	
Carc. 2 - H351	
STOT SE 3 - H335, H336	
STOT RE 2 - H373	

The Full Text for all Hazard Statements are Displayed in Section 16.

### 4. First-aid measures

#### Description of first aid measures

<b>General information</b>	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention.
<b>Skin Contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Only remove contact lenses if the person is conscious, coherent and they can remove them themselves. If adhesive bonding occurs, do not force eyelids apart. Continue to rinse for at least 15 minutes. If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.

#### Most important symptoms and effects, both acute and delayed

## Tensorgrip F70N Non-Flam Agressive Pressure Sensitive Adhesive

<b>General information</b>	High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Prolonged or repeated exposure may cause the following adverse effects: Irritation of nose, throat and airway. Coughing. Headache.
<b>Ingestion</b>	Prolonged or repeated exposure may cause the following adverse effects: Gastrointestinal symptoms, including upset stomach. Nausea, vomiting. Diarrhea.
<b>Skin contact</b>	Prolonged contact may cause redness, irritation and dry skin.
<b>Eye contact</b>	Prolonged or repeated exposure may cause the following adverse effects: Irritation and redness, followed by blurred vision.

### 5. Fire-fighting measures

#### Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Pressurized container: Must not be exposed to temperatures above 50°C/120°F Containers can burst violently or explode when heated, due to excessive pressure build-up.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Aldehydes. Hydrocarbons Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Hydrogen chloride (HCl).

#### Advice for firefighters

<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	For personal protection, see Section 8.
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#### Environmental precautions

<b>Environmental precautions</b>	Avoid discharge into drains. Contain spillage with sand, earth or other suitable non-combustible material.
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#### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Stop leak if possible without risk. Provide adequate ventilation. Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage.
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### 7. Handling and storage

#### Precautions for safe handling

<b>Usage precautions</b>	Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapors. Use approved respirator if air contamination is above an acceptable level. Container must be kept tightly closed when not in use.
<b>Advice on general occupational hygiene</b>	Do not eat, drink or smoke when using this product.

#### Conditions for safe storage, including any incompatibilities

<b>Storage precautions</b>	Keep away from heat, sparks and open flame. Keep container tightly closed. Keep only in the original container. Pressurized container: Must not be exposed to temperatures above 50°C/120°F
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## Tensorgrip F70N Non-Flam Aggressive Pressure Sensitive Adhesive

### 8. Exposure Controls/personal protection

#### Control parameters

#### Occupational exposure limits

#### Methylene Chloride

Long-term exposure limit (8-hour TWA): ACGIH 50 ppm

A3

Short-term exposure limit (15-minute): OSHA 125 ppm

Long-term exposure limit (8-hour TWA): OSHA 25 ppm

ACGIH = American Conference of Governmental Industrial Hygienists.

A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.

OSHA = Occupational Safety and Health Administration.

#### Exposure controls

#### Protective equipment



#### Appropriate engineering controls

This product must not be handled in a confined space without adequate ventilation. Provide adequate general and local exhaust ventilation.

#### Eye/face protection

Wear chemical splash goggles.

#### Hand protection

Use protective gloves.

#### Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.

#### Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

#### Respiratory protection

Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. If exposure levels are likely to be exceeded, use a full face mask fitted with an organic AXP3 filter for short term low level exposures. For long term or high level exposures, compressed airline breathing apparatus should be used.

### 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

Appearance	Aerosol.
Color	Clear.
Odor	Organic solvents.
Relative density	~ 1.18
Solubility(ies)	Negligibly soluble in water
Volatile organic compound	This product contains a maximum VOC content of 0 g/l.

### 10. Stability and reactivity

#### Stability

Stable at normal ambient temperatures and when used as recommended.

#### Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid contact with the following materials: Oxidizing agents. Reducing agents.

## Tensorgrip F70N Non-Flam Aggressive Pressure Sensitive Adhesive

**Hazardous decomposition products** Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrocarbons. Hydrogen chloride (HCl). Aldehydes.

### 11. Toxicological information

#### Information on toxicological effects

##### Acute toxicity - oral

ATE oral (mg/kg) 159.87

##### Acute toxicity - dermal

ATE dermal (mg/kg) 1,758.59

##### Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 17.59

#### Toxicological information on ingredients.

#### Methylene Chloride

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 2,000.0

Species Rat

ATE oral (mg/kg) 100.0

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 2,000.0

Species Rat

ATE dermal (mg/kg) 1,100.0

##### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l) 52.0

Species Rat

ATE inhalation (vapours mg/l) 11.0

##### Carcinogenicity

**Carcinogenicity** Cancinogenicity - rat - inhalation Limited evidence of carcinogenicity in animal studies

**Target organ for carcinogenicity** Tumerigenic: Carcinogenic by RTECS criteria. Endocrine: Tumors

**IARC carcinogenicity** IARC Group 2B Possibly carcinogenic to humans.

**NTP carcinogenicity** Reasonably anticipated to be a human carcinogen.

##### Specific target organ toxicity - single exposure

**STOT - single exposure** May cause respiratory irritation. May cause drowsiness or dizziness

##### Specific target organ toxicity - repeated exposure

## Tensorgrip F70N Non-Flam Agressive Pressure Sensitive Adhesive

**STOT - repeated exposure** Inhalation - May cause damage to organs through prolonged or repeated exposure  
 -Central nervous system Oral - May cause damage to organs through prolonged or repeated exposure  
 -Liver, blood.

### General information

RTECS: PA8050000

### 12. Ecological Information

### 13. Disposal considerations

#### Waste treatment methods

#### Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### 14. Transport information

**Air transport notes** 1. <75kg, 2. <150kg

#### UN Number

UN No. (DOT) 3500

UN No. (ICAO) 3500

#### UN proper shipping name

Proper shipping name (DOT) Chemical Under Pressure, N.O.S. (Air, Compressed)

#### Transport hazard class(es)

DOT hazard class 2.2

#### Transport labels



#### Packing group

Not applicable.

### 15. Regulatory information

#### Inventories

#### US - TSCA

Present.

#### Methylene Chloride

### 16. Other information

Revision date 1/8/2016

Revision 2

Supersedes date 1/8/2016

SDS No. 21517



## Tensorgrip F70N Non-Flam Aggressive Pressure Sensitive Adhesive

<b>Hazard statements in full</b>	H280 Contains gas under pressure; may explode if heated. H301 Toxic if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H373 May cause damage to organs (Oral (Category 2), Inhalation (Category 2), Blood, Central nervous system, Liver) through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure.
<b>ACA HMIS Health rating.</b>	Moderate hazard. (2)
<b>ACA HMIS Flammability rating.</b>	Will not burn. (0)
<b>ACA HMIS Physical hazard rating.</b>	Normally stable. (0)
<b>ACA HMIS Personal protection rating.</b>	B

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