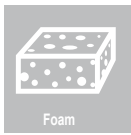


# P310 PRESSURE SENSITIVE SPRAY CONTACT ADHESIVE

DATA SHEET  
**TensorGrip**



As part of our **INDUSTRIAL** range, **P310** is a web spray adhesive designed for use in applications using the substrates listed.

## PRODUCT DESCRIPTION

**TensorGrip® P310** is a high solids, pressure sensitive adhesive with fast dry, long tack and high peel strength adhesive designed to bond to a vast range of substrates and maintain tackiness.

### ADVANTAGES

- Aggressive tack adhesive
- Fast coverage of large areas
- Long open assembly time
- Repositionable
- One or two sided application
- 80% of final strength achieved immediately
- Full strength achieved in 24 hours
- Also bonds polyethylene and other films
- Resistant to high temperatures when applied two-sided

## DIRECTIONS FOR USE

- **TensorGrip P310** is designed as a portable, self-contained spray system for field or shop applications.
- Apply adhesive to one or 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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# P310 PRESSURE SENSITIVE SPRAY CONTACT ADHESIVE

DATA SHEET  
**Tensorgrip**

## CHEMICAL TECHNICAL DATA

### TYPICAL PROPERTIES

- Total Solids 24-30%
- VOC Content 425 g/L
- Color Green, Clear; Aerosol Clear Only
- System Flammability Non-Flammable adhesive; Flammable propellant
- Solvent System Methylene Chloride
- Dry time 2-4 mins dependent on temp & humidity
- Open time Long
- Shelf Life 18 months from date of manufacture

### PACKAGING

- 650ml Aerosol Cans
- 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

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**Tensorgrip**



## SAFETY DATA SHEET

### Tensorgrip P310AA Pressure Sensitive Spray Contact Adhesive

#### 1. Identification

##### Product identifier

**Product name** Tensorgrip P310AA Pressure Sensitive Spray Contact Adhesive

**Product number** USA

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

**Application** Aerosol Spray Adhesive

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

**Supplier** Tensorgrip  
5710 F St  
Omaha NE 68117  
(402) 731 3636  
(402) 731 1473  
marketing.us@quin-global.com

##### Emergency telephone number

**Emergency telephone** Chemtrec: 1 800 424 9300

#### 2. Hazard(s) identification

##### Classification of the substance or mixture

**Physical hazards** Aerosol 2 - H223, H229 Press. Gas, Compressed - H280

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

**Environmental hazards** Not Classified

**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

## Tensorgrip P310AA Pressure Sensitive Spray Contact Adhesive

<b>Hazard statements</b>	<p>H223 Flammable aerosol.</p> <p>H280 Contains gas under pressure; may explode if heated.</p> <p>H301 Toxic if swallowed.</p> <p>H315 Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H335 May cause respiratory irritation.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H351 Suspected of causing cancer.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p>
<b>Precautionary statements</b>	<p>P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.</p> <p>P211 Do not spray on an open flame or other ignition source.</p> <p>P251 Pressurized container: Do not pierce or burn, even after use</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P308+P313 If exposed or concerned: Get medical advice/ attention.</p> <p>P410+P403 Protect from sunlight. Store in a well-ventilated place.</p>
<b>Supplemental label information</b>	AT(o) 15.0% of the mixture consists of ingredient(s) of unknown acute oral toxicity.
<b>Contains</b>	Methylene Chloride, Propane, Isobutane

### Other hazards

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

### 3. Composition/information on ingredients

#### Mixtures

<b>Methylene Chloride</b> <span style="float: right;"><b>30-60%</b></span> 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
<b>Propane</b> <span style="float: right;"><b>10-25%</b></span> CAS number: 74-98-6
<b>Classification</b> Flam. Gas 1 - H220 Press. Gas, Liquefied - H280 Acute Tox. 4 - H332 Simple Asphyxiant - USH03

## Tensorgrip P310AA Pressure Sensitive Spray Contact Adhesive

<b>Isobutane</b>	<b>10-25%</b>
CAS number: 75-28-5	
<b>Classification</b>	
Flam. Gas 1 - H220	
Press. Gas, Compressed - H280	

The full text for all hazard statements is displayed in Section 16.

### 4. First-aid measures

#### Description of first aid measures

<b>General information</b>	Remove affected person from source of contamination. Place unconscious person on their side in the recovery position and ensure breathing can take place. 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>	Get medical attention immediately. 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.
<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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Symptoms following overexposure may include the following: Upper respiratory irritation. Difficulty in breathing. Drowsiness. May cause nausea, headache, dizziness and intoxication.
<b>Ingestion</b>	Harmful if swallowed. Prolonged or repeated exposure may cause the following adverse effects: Gastrointestinal symptoms, including upset stomach. Diarrhea.
<b>Skin contact</b>	Prolonged contact may cause redness, irritation and dry skin.
<b>Eye contact</b>	Risk of serious damage to eyes. Symptoms following overexposure may include the following: Irritation and redness, followed by blurred vision.

### 5. Fire-fighting measures

#### Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

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

## Tensorgrip P310AA Pressure Sensitive Spray Contact Adhesive

**Specific hazards** 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. Vapors are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.

### Advice for firefighters

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** For personal protection, see Section 8. No smoking, sparks, flames or other sources of ignition near spillage.

### Environmental precautions

**Environmental precautions** Avoid discharge into drains. Contain spillage with sand, earth or other suitable non-combustible material.

### Methods and material for containment and cleaning up

**Methods for cleaning up** Stop leak if possible without risk. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. 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.

## 7. Handling and storage

### Precautions for safe handling

**Usage precautions** Avoid contact with skin and eyes. Keep away from heat, sparks and open flame. 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. Use explosion proof electric equipment. Avoid discharge into drains or watercourses or onto the ground.

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

**Storage precautions** 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

### Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

## 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

#### **Propane**

## Tensorgrip P310AA Pressure Sensitive Spray Contact Adhesive

Long-term exposure limit (8-hour TWA): NIOSH: National Institute of Occupational Safety and Health 1800 mg/m<sup>3</sup> 1000 ppm  
 Long-term exposure limit (8-hour TWA): OSHA 1800 ppm 1000 mg/m<sup>3</sup>

### Isobutane

Long-term exposure limit (8-hour TWA): ACGIH 1000 ppm

Long-term exposure limit (8-hour TWA): NIOSH: National Institute of Occupational Safety and Health 800 ppm 1900 mg/m<sup>3</sup>

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. Avoid inhalation of vapors and spray/mists. As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapor or mist.

#### 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 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	Liquid.
Color	Green.
Odor	Sweetish. Pungent.
Flash point	~ -156°F Not specified.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 1.8 g/100 g Upper flammable/explosive limit: 9.5 g/100 g
Vapor density	~ 9.2
Relative density	~ 1.2
Solubility(ies)	Negligibly soluble in water
Volatile organic compound	This product contains a maximum VOC content of 425 g/l.

## Tensorgrip P310AA Pressure Sensitive Spray Contact Adhesive

### 10. Stability and reactivity

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
<b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition. Avoid contact with the following materials: Oxidizing agents. Reducing agents.
<b>Materials to avoid</b>	Acids. Alkalis. Oxidizing materials. Reducing agents.
<b>Hazardous decomposition products</b>	Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Hydrogen chloride (HCl). Nitrous gases (NO <sub>x</sub> ).

### 11. Toxicological information

#### Information on toxicological effects

##### Acute toxicity - oral

ATE oral (mg/kg) 170.0

##### Acute toxicity - dermal

ATE dermal (mg/kg) 2,200.0

##### Acute toxicity - inhalation

ATE inhalation (gases ppm) 30,000.0

ATE inhalation (vapours mg/l) 73.33333333

#### 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



## Tensorgrip P310AA Pressure Sensitive Spray Contact Adhesive

**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

**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

### Propane

#### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> gases ppmV)** 1,442.0

**Species** Rat

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 1,442.0

**Species** Rat

**ATE inhalation (gases ppm)** 4,500.0

**ATE inhalation (vapours mg/l)** 11.0

### Isobutane

**Toxicological effects** No information available.

#### Carcinogenicity

**Carcinogenicity** Does not contain any substances known to be carcinogenic.

**Inhalation** Suffocation (asphyxiant) hazard

**Skin Contact** Spray will evaporate and cool rapidly and may cause frostbite or cold burns if in contact with skin.

**Eye contact** Spray will evaporate and cool quickly and may cause frostbite or cold burns if in contact with skin.

## 12. Ecological Information

## 13. Disposal considerations

### Waste treatment methods

## Tensorgrip P310AA Pressure Sensitive Spray Contact Adhesive

**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. (ICAO)** 1950

**UN No. (DOT)** Limited Quantity <1L, Aerosol

**UN proper shipping name**

**Proper shipping name (DOT)** Aerosols, Flammable

**Transport hazard class(es)**

**Transport labels**



**Packing group**

Not applicable.

### 15. Regulatory information

**Inventories**

**US - TSCA**

Present.

*Isobutane*

*Methylene Chloride*

### 16. Other information

**Revision date** 11/15/2017

**Revision** 4

**Supersedes date** 4/3/2017

**SDS No.** 20707

**Hazard statements in full**

H223 Flammable aerosol.  
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.  
H332 Harmful 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.  
USH03 May displace oxygen and cause rapid suffocation

**ACA HMIS Health rating.** Moderate hazard. (2)

## Tensorgrip P310AA Pressure Sensitive Spray Contact Adhesive

<b>ACA HMIS Flammability rating.</b>	Extremely flammable. (4)
<b>ACA HMIS Physical hazard rating.</b>	Normally stable. (0)
<b>ACA HMIS Personal protection rating.</b>	B

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