P310 PRESSURE SENSITIVE SPRAY CONTACT ADHESIVE











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, selfcontained 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.



P310 PRESSURE SENSITIVE SPRAY CONTACT ADHESIVE

DATA SHEET Tensory (III)

CHEMICAL TECHNICAL DATA

TYPICAL PROPERTIES

Total Solids

VOC Content

Color

• System Flammability

Solvent System

• Dry time

Open time

· Shelf Life

24-30%

425 g/L

Green, Clear; Aerosol Clear Only

Non-Flammable adhesive; Flammable propellant

Methylene Chloride

2-4 mins dependent on temp & humidity

Long

18 months from date of manufacture

PACKAGING

22L
 108L
 216L
 Disposable Canister
 Returnable Canister
 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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SAFETY DATA SHEET Tensorgrip P310 Pressure Sensitive Spay Contact Adhesive

1. Identification

Product identifier

Product name Tensorgrip P310 Pressure Sensitive Spay Contact 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 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

Hazard statements H223 Flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H301 Toxic if swallowed. 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.

Precautionary statements P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.

P211 Do not spray on an open flame or other ignition source. P251 Pressurized container: Do not pierce or burn, even after use

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

P308+P313 If exposed or concerned: Get medical advice/ attention. P410+P403 Protect from sunlight. Store in a well-ventilated place.

Supplemental label

information

AT(o) 15.0% of the mixture consists of ingredient(s) of unknown acute oral toxicity.

Contains Methylene Chloride, Propane, Isobutane

Other hazards

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

3. Composition/information on ingredients

Mixtures

Methylene Chloride 30-60%

CAS number: 75-09-2

Classification

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

Isobutane 10-25%

CAS number: 75-28-5

Classification

Flam. Gas 1 - H220

Press. Gas, Compressed - H280

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Propane 10-25%

CAS number: 74-98-6

Classification

Flam. Gas 1 - H220

Press. Gas, Liquefied - H280

Acute Tox. 4 - H332

Simple Asphyxiant - USH03

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

4. First-aid measures

Description of first aid measures

General information 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.

Inhalation 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.

Ingestion 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.

Skin Contact Remove affected person from source of contamination. Remove contaminated clothing. Wash

skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eye contact 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

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

Inhalation Symptoms following overexposure may include the following: Upper respiratory irritation.

Difficulty in breathing. Drowsiness. May cause nausea, headache, dizziness and intoxication.

Ingestion Harmful if swallowed. Prolonged or repeated exposure may cause the following adverse

effects: Gastrointestinal symptoms, including upset stomach. Diarrhea.

Skin contact Prolonged contact may cause redness, irritation and dry skin.

Eye contact 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

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

Unsuitable extinguishing

Do not use water jet as an extinguisher, as this will spread the fire.

media

Special hazards arising from the substance or mixture

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

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Short-term exposure limit (15-minute): OSHA 125 ppm Long-term exposure limit (8-hour TWA): OSHA 25 ppm

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/m³

Propane

Long-term exposure limit (8-hour TWA): NIOSH: National Institute of Occupational Safety and Health 1800 mg/m³ 1000 ppm Long-term exposure limit (8-hour TWA): OSHA 1800 ppm 1000 mg/m³

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.

filter for short term low level exposures. For long term or high level exposures, a supplied air

respirator 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.

10. Stability and reactivity

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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.

Materials to avoid Acids. Alkalis. Oxidizing materials. Reducing agents.

Hazardous decomposition

Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

products Hydrogen chloride (HCl). Nitrous gases (NOx).

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 (LD₅₀

mg/kg)

Species Rat

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.0

mg/kg)

Species Rat

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC₅₀ vapours mg/l)

52.0

2,000.0

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. Endochrine: Tumors

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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

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.

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

contact with skin.

Propane

Acute toxicity - inhalation

Acute toxicity inhalation 1,442.0

(LC₅₀ gases ppmV)

Species Rat

Acute toxicity inhalation

1.442.0

(LC₅₀ vapours mg/l)

Species Rat

ATE inhalation (gases

4,500.0

ppm)

ATE inhalation (vapours 11.0

mg/l)

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 Cargo aircraft only. <75kg

UN Number

UN No. (ICAO) 3501 **UN No. (DOT)** 3501

UN proper shipping name

Proper shipping name (TDG) Chemical Under Pressure, Flammable, N.O.S.

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

Transport hazard class(es)

DOT hazard class 2.1

Transport labels



Packing group

Not applicable.

15. Regulatory information

Inventories

US-TSCA

Present.

Isobutane

Methylene Chloride

16. Other information

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Revision 4

 Supersedes date
 4/3/2017

 SDS No.
 20361

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.

ACA HMIS Flammability

rating.

Extremely flammable. (4)

Moderate hazard. (2)

ACA HMIS Physical hazard Normally stable. (0)

rating.

ACA HMIS Personal B

protection rating.

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