# P311 NON-FLAM PRESSURE SENSITIVE ADHESIVE















As part of our INDUSTRIAL range, P311 is a web spray adhesive designed for use in applications using the substrates listed.

# PRODUCT DESCRIPTION

**TensorGrip P311** is a medium pressure-sensitive adhesive, offering fast dry and excellent repositionability. This adhesive is the answer for temporary or permanent bonds.

### ADVANTAGES

- Non-Flammable
- Low VOC
- · 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 P311 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.







# P31 NON-FLAM PRESSURE SENSITIVE ADHESIVE Tensor Tensor

# CHEMICAL TECHNICAL DATA

### TYPICAL PROPERTIES

Total SolidsVOC Content

Color

System Flammability

Solvent System

• Dry time

Open time

Shelf Life

22-28%

0 g/L

Blue, Clear

100% Non-Flammable Methylene Chloride

3-5 mins dependent on temp & humidity

Long

18 months from date of manufacture

### **PACKAGING**

• 650 ml

22L108L216L

Aerosol Can

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 P311 Non-Flam Pressure Sensitive Adhesive

# 1. Identification

**Product identifier** 

Product name Tensorgrip P311 Non-Flam 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** 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 3 - H229 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

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 P311 Non-Flam Pressure Sensitive Adhesive

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.

**Precautionary statements** 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.

P405 Store locked up.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Contains Methylene Chloride

### Other hazards

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

# 3. Composition/information on ingredients

### **Mixtures**

Methylene Chloride 60-100%

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

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. 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.

**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** 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.

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.

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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 High concentrations may cause central nervous system depression resulting in headaches,

dizziness and nausea.

**Inhalation** Irritating to respiratory system. Irritation of nose, throat and airway. Headache.

**Ingestion** Gastrointestinal symptoms, including upset stomach. Stomach pain. Nausea, vomiting.

Diarrhea.

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

**Eye contact** May cause eye irritation. Prolonged contact may cause redness and/or tearing.

# 5. Fire-fighting measures

# 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.

Hazardous combustion

products

Thermal decomposition or combustion products may include the following substances:

Carbon dioxide (CO2). Carbon monoxide (CO). Hydrocarbons Aldehydes.

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.

**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. 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 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.

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 container tightly closed. Keep only in the original container. Pressurized container: Must

not be exposed to temperatures above 50°C/120°F

# Tensorgrip P311 Non-Flam 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 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. Liquid

Color Clear. Blue.

Odor Organic solvents.

Relative density ~ 1.22

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 P311 Non-Flam Pressure Sensitive Adhesive

Materials to avoid May cause oxidation with: Aluminum.

products

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

Aldehydes. Hydrocarbons.

# 11. Toxicological information

Hazardous decomposition

# Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 145.81510645

Acute toxicity - dermal

**ATE dermal (mg/kg)** 1,603.9661709

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 16.03966171

# Toxicological information on ingredients.

# Methylene Chloride

Acute toxicity - oral

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

mg/kg)

Species Rat

**ATE oral (mg/kg)** 100.0

Acute toxicity - dermal

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

mg/kg)

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. Endochrine: 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

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# 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

# 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. (TDG) 3500

UN No. (ICAO) 3500

UN No. (DOT) 3500

# UN proper shipping name

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

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

# Transport hazard class(es)

TDG class 2

TDG label(s) 2.2

# Transport labels



# Packing group

Not applicable.

# 15. Regulatory information

# Inventories

# US - TSCA

The following ingredients are listed or exempt:

Methylene Chloride

# 16. Other information

Revision date 12/9/2015

Revision 1

# Tensorgrip P311 Non-Flam Pressure Sensitive Adhesive

Supersedes date 10/7/2015

**SDS No.** 21489

**Hazard statements in full** 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.

ACA HMIS Health rating. Moderate hazard. (2)

**ACA HMIS Flammability** 

ACA FIIVIIS FIAITIITIADI

Will not burn. (0)

rating.

**ACA HMIS Physical hazard** 

rating.

Normally stable. (0)

ACA HMIS Personal protection rating.

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