

As part of our INDUSTRIAL range, **Tensorgrip P415** is a water based pressure sensitive snowflake spray adhesive designed for use in applications using the substrates listed



Insulation



FRP/GRP



California  
Compliant



ZERO-Flam  
Technology



Low Odor



Hazardous Air  
Pollutant



Snowflake Spray

## PRODUCT DESCRIPTION

**Tensorgrip P415** is a high solids, acrylic based, snowflake spray pressure-sensitive adhesive with excellent temperature resistance with 2x coverage of standard pressure sensitive adhesive canisters.

## ADVANTAGES

- 100% Non Flammable
- VOC Free
- Repositionable bond
- Excellent Heat Resistance (over 300°F)
- Excellent High Coverage
- Fast Dry, High Tack, Long Open Time
- 100% Adhesive Transfer Efficiency

## DIRECTIONS FOR USE

**Tensorgrip P415** is designed as a portable, self-contained spray system for field or shop applications.

- Apply adhesive to one surface to be mated, at 70% to 90% coverage. For permanent bonds, hold the applicator perpendicular to the substrate, 6-10 inches away. For temporary or low strength bonds, hold applicator 18"-30" from the substrate.
- Allow enough time (10-15 minutes or until translucent) for the adhesive to become tacky before bonding.
- Parts should be mated with as much pressure as practical.
- KEEP FROM FREEZING! Freezing will render this product unusable. Canister system will spray adequately above 60° F. Canister system should be kept in a warm area.
- 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 the canister: turn the 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. If unable to reconnect to a new canister, connect hose to a water supply using M301 Cleanout Hose Adapter (sold separately) and purge until clean. Only depressurize and disconnect the hose and spray gun when the canister is empty.
- CARE OF SPRAY TIP: To avoid adhesive curing on the spray tip, either store submerged in water or clean adhesive off with water or solvent immediately.

### CHEMICAL TECHNICAL DATA

TYPICAL PROPERTIES	
Total Solids	64%-69%
VOC Content	0 g/L
Color(s)	Clear/White
System Flammability	Non-Flammable
Dry Time	2-5 mins dependent on temp & humidity
Open Time	4+ hours
Shelf Life	12 months from date of manufacture

PACKAGING	
7L	Disposable Canister
22L	Disposable Canister

### APPLICATION TOOLS

TOOL	PART NUMBER	CANISTER SIZES	
		7 LITER	22 LITER
Hoses	M130-6 (6')	x	
	M130-12 (12')		x
	M130-18 (18')		x
Spray Guns	M120	x	x
Spray Tip	M201 (8"-12" Medium Build Snowflake)	x	x
Clean out	M301 (Hose Cleanout Adaptor)	x	x

### HANDLING AND STORAGE

- Consult Safety Data Sheet prior to use.
- Do not store at temperatures over 120°F/50°C.
- KEEP FROM FREEZING! Freezing will render this product unusable.
- Avoid exposure to direct sunlight.
- Do not store directly on concrete floor. Canister system will spray adequately above 60°F/15°C.
- Canister system should be kept in a warm area. In the event the canister gets abnormally chilled, or gives poor or sputtering spray, it should be warmed up in warm water before continued usage.
- 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.



## SAFETY DATA SHEET

### Tensorgrip P415 Water Based Pressure Sensitive Adhesive Canister

#### 1. Identification

##### Product identifier

**Product name** Tensorgrip P415 Water Based Pressure Sensitive Adhesive Canister

**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 US, Inc.  
5510 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 Press. Gas, Compressed - H280

**Health hazards** Not Classified

**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

##### Hazard symbols



**Signal word** Warning

**Hazard statements** H280 Contains gas under pressure; may explode if heated.

**Precautionary statements** P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.  
P251 Pressurized container: Do not pierce or burn, even after use  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/ attention.  
P412 Do not expose to temperatures exceeding 50°C/122°F.

## Tensorgrip P415 Water Based Pressure Sensitive Adhesive Canister

### Other hazards

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

### 3. Composition/information on ingredients

#### Mixtures

HFO-1234ze, trans-1,3,3,3-Tetrafluoroprop-1-ene	5-10%
CAS number: 29118-24-9	
<b>Classification</b>	
Press. Gas, Liquefied - 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. 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

<b>Inhalation</b>	May cause coughing and difficulties in breathing. May cause eye and respiratory system irritation. Overexposure may depress the central nervous system, causing dizziness and intoxication.
<b>Ingestion</b>	Aspiration hazard if swallowed. May be fatal if swallowed and enters airways. Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract. May Cause the following effects: Gastrointestinal symptoms, including upset stomach. Central nervous system depression. Nausea, vomiting. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
<b>Skin contact</b>	May be absorbed through the skin. Product has a defatting effect on skin. The product is irritating to eyes and skin. A single exposure may cause the following adverse effects: Dryness and/or cracking.
<b>Eye contact</b>	Causes serious eye irritation. Burns can occur. A single exposure may cause the following adverse effects: Pain. Conjunctivitis, irritation, tearing. Prolonged or repeated exposure may cause the following adverse effects: Irritation of eyes and mucous membranes. Prolonged contact causes serious eye and tissue damage.

### 5. Fire-fighting measures

## Tensorgrip P415 Water Based Pressure Sensitive Adhesive Canister

### 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.

### 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 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

### 8. Exposure controls/Personal protection

#### Control parameters

#### Occupational exposure limits

**HFO-1234ze, trans-1,3,3,3-Tetrafluoroprop-1-ene**

TWA of 800 ppm WEEL:US OARS. WEELs Workplace Environmental Exposure Level Guide

**HFO-1234ze, trans-1,3,3,3-Tetrafluoroprop-1-ene (CAS: 29118-24-9)**

**Ingredient comments** No exposure limits known for ingredient(s).

#### Exposure controls

#### Protective equipment



## Tensorgrip P415 Water Based Pressure Sensitive Adhesive Canister

<b>Appropriate engineering controls</b>	This product must not be handled in a confined space without adequate ventilation. Provide adequate general and local exhaust ventilation.
<b>Eye/face protection</b>	Wear chemical splash goggles.
<b>Hand protection</b>	Use protective gloves.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.
<b>Hygiene measures</b>	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.
<b>Respiratory protection</b>	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 half face mask fitted with an organic vapor 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

<b>Appearance</b>	Aerosol.
<b>Color</b>	White / off-white.
<b>Odor</b>	Mild.
<b>Odor threshold</b>	Not applicable.
<b>pH</b>	Not available.
<b>Melting point</b>	Not available.
<b>Initial boiling point and range</b>	Not applicable.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	Not applicable.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	1.28
<b>Solubility(ies)</b>	Water soluble when wet
<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Volatile organic compound</b>	This product contains a maximum VOC content of 0 g/l.

### 10. Stability and reactivity

## Tensorgrip P415 Water Based Pressure Sensitive Adhesive Canister

<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>Hazardous decomposition products</b>	Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Nitrous gases (NO <sub>x</sub> ).

### 11. Toxicological information

#### Information on toxicological effects

#### Toxicological information on ingredients.

#### HFO-1234ze, trans-1,3,3,3-Tetrafluoroprop-1-ene

<b>Toxicological effects</b>	As supplied, the material does not present a health hazard.
<b><u>Acute toxicity - oral</u></b>	
<b>Notes (oral LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
<b><u>Acute toxicity - dermal</u></b>	
<b>Notes (dermal LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
<b><u>Acute toxicity - inhalation</u></b>	
<b>Notes (inhalation LC<sub>50</sub>)</b>	LC <sub>50</sub> >207000 ppm, Inhalation, Rat
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Dose: 0.4 mL, 4 hours, Rabbit Primary dermal irritation index: 0 Not irritating.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	No information available.
<b><u>Respiratory sensitization</u></b>	
<b>Respiratory sensitization</b>	Based on available data the classification criteria are not met.
<b><u>Skin sensitization</u></b>	
<b>Skin sensitization</b>	Based on available data the classification criteria are not met.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Gene mutation: Negative.
<b>Genotoxicity - in vivo</b>	Chromosome aberration: Negative.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Based on available data the classification criteria are not met.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Two-generation study - NOEL >20000 ppm, Inhalation, Rat P This substance has no evidence of toxicity to reproduction.
<b>Reproductive toxicity - development</b>	Developmental toxicity: - NOAEC: 15000 ppm, Inhalation, Rat This substance has no evidence of toxicity to reproduction.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Based on available data the classification criteria are not met.

## Tensorgrip P415 Water Based Pressure Sensitive Adhesive Canister

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Based on available data the classification criteria are not met.

### Aspiration hazard

**Aspiration hazard** Not relevant.

**Inhalation** Vapors may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system.

**Ingestion** May cause discomfort if swallowed.

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

**Eye contact** May cause temporary eye irritation. May cause temporary eye irritation.

## 12. Ecological information

### Bioaccumulative potential

**Partition coefficient** Not available.

## 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. (trans-1,3,3,3-Tetrafluoroprop-1-ene)

**Proper shipping name (DOT)** Chemical Under Pressure, N.O.S. (trans-1,3,3,3-Tetrafluoroprop-1-ene)

### Transport hazard class(es)

**TDG class** 2

**TDG label(s)** 2.2

### Transport labels



### Packing group

**Packing group (International)** Not applicable.

## 15. Regulatory information



## Tensorgrip P415 Water Based Pressure Sensitive Adhesive Canister

**National regulations** All applicable legislation listed in other parts of this Safety Data Sheet

**Guidance** Safety Data Sheets for Substances and Preparations.

### US Federal Regulations

#### **SARA (311/312) Hazard Categories**

Present.

### US State Regulations

#### **California Proposition 65 Carcinogens and Reproductive Toxins**

This product does not contain any chemicals known to the state of California to cause cancer, birth defects or any other reproductive harm.

### Inventories

#### **Canada - DSL/NDSL**

The following ingredients are listed or exempt:

#### **US - TSCA**

The following ingredients are listed or exempt:

### **16. Other information**

<b>Revision date</b>	8/14/2020
<b>Revision</b>	11
<b>Supersedes date</b>	8/20/2015
<b>SDS No.</b>	23490
<b>Hazard statements in full</b>	H280 Contains gas under pressure; may explode if heated.
<b>ACA HMIS Health rating.</b>	Slight hazard. (1)
<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

### **DIRECTIONS FOR USE**

### **PRODUCT LOGO**

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. The manufacturer MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. Given the variety of factors that can affect the use and application of this product, many of which are solely within the user's knowledge and control, the user is responsible for determining whether the usage of this product is fit for a particular purpose and suitable for the user's method of use or application. It is essential that the user, not the manufacturer, evaluates this product to determine whether it is fit for a particular purpose and suitable for the user's method of use or application.