



## SAFETY DATA SHEET

### TensorGrip C10 Polyurethane Bead Adhesive

#### 1. Identification

##### Product identifier

**Product name** TensorGrip C10 Polyurethane Bead Adhesive

**Product number** USA

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

**Application** Pressurized Polyurethane Foam 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

#### 2. Hazard(s) identification

##### Classification of the substance or mixture

**Physical hazards** Flam. Aerosol 1 - H222 Press. Gas, Compressed - H280

**Health hazards** Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335 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 C10 Polyurethane Bead Adhesive

### Hazard statements

H222 Extremely flammable aerosol.  
 H280 Contains gas under pressure; may explode if heated.  
 H302 Harmful if swallowed.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H335 May cause respiratory irritation.  
 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  
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P337+P313 If eye irritation persists: Get medical advice/ attention.  
 P342+P311 If experiencing respiratory symptoms: Call a poison center/ doctor.  
 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.

### Supplemental label information

AT(o) 16.36% of the mixture consists of ingredient(s) of unknown acute oral toxicity.

### Contains

Polymeric MDI, 1,1, Difluoroethane (152a), Monomeric MDI

### Other hazards

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

## 3. Composition/information on ingredients

### Mixtures

<b>Polymeric MDI</b> CAS number: 9016-87-9	<b>10-30%</b>
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Resp. Sens. 1 - H334 Skin Sens. 1A - H317 STOT SE 3 - H335	
<b>1,1, Difluoroethane (152a)</b> CAS number: 75-37-6	<b>10-30%</b>
<b>Classification</b> Flam. Aerosol 1 - H222 Press. Gas, Compressed - H280 Unknown Classification Acute Tox. 4 - H332 Simple Asphyxiant - USH03	

## TensorGrip C10 Polyurethane Bead Adhesive

<b>Monomeric MDI</b>	<b>10-30%</b>
CAS number: 101-68-8	
<b>Classification</b>	
Acute Tox. 4 - H302	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Resp. Sens. 1 - H334	
Skin Sens. 1 - H317	
Carc. 2 - H351	
STOT SE 3 - H335	
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

<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>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 liquid is irritating to eyes and skin. A single exposure may cause the following adverse effects: Dryness and/or cracking.

## TensorGrip C10 Polyurethane Bead Adhesive

**Eye contact** 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.

### Indication of immediate medical attention and special treatment needed

#### 5. Fire-fighting measures

##### Extinguishing media

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

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

##### 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

## TensorGrip C10 Polyurethane Bead Adhesive

### Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

### 8. Exposure Controls/personal protection

#### Control parameters

#### Occupational exposure limits

##### 1,1, Difluoroethane (152a)

Long-term exposure limit (8-hour TWA): WEEL:US.AIHA = Workplace Environmental Exposure Level Guides 2700 mg/m<sup>3</sup>  
1000 ppm

##### Monomeric MDI

Long-term exposure limit (8-hour TWA): ACGIH 0.005 ppm

Ceiling exposure limit: OSHA 0.02 ppm 0.2 mg/m<sup>3</sup>

ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

#### Polymeric MDI (CAS: 9016-87-9)

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

#### 2,2'-dimorpholinyl-diethyl ether (6425-39-4) (CAS: 6425-39-4)

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

#### 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 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

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

**Appearance** Aerosol.

## TensorGrip C10 Polyurethane Bead Adhesive

<b>Color</b>	Natural.
<b>Odor</b>	Characteristic.
<b>Initial boiling point and range</b>	-25°C (-13°F)
<b>Relative density</b>	1.085
<b>Volatile organic compound</b>	This product contains a maximum VOC content of 0 g/l.

### 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>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) 1,325.94

##### Acute toxicity - inhalation

ATE inhalation (gases ppm) 27,506.11

ATE inhalation (vapours mg/l) 34.88

#### Toxicological information on ingredients.

#### Polymeric MDI

##### Acute toxicity - oral

ATE oral (mg/kg) 500.0

##### Acute toxicity - inhalation

Acute toxicity inhalation  
(LC<sub>50</sub> vapours mg/l) 0.49

Species Rat

ATE inhalation (vapours  
mg/l) 11.0

##### Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

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

STOT - single exposure May cause respiratory irritation.

##### Aspiration hazard

Aspiration hazard No data available.

#### 1,1, Difluoroethane (152a)

##### Acute toxicity - oral

## TensorGrip C10 Polyurethane Bead Adhesive

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 1,500.0

**Species** Rat

**ATE oral (mg/kg)** 500.0

### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> gases ppmV)** 383,000.0

**Species** Rat

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

### Carcinogenicity

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

### Monomeric MDI

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 9,200.0

**Species** Rat

**ATE oral (mg/kg)** 500.0

#### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 2.24

**Species** Rat

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

#### Serious eye damage/irritation

**Serious eye damage/irritation** Slightly irritating.

#### Respiratory sensitization

**Respiratory sensitization** May cause sensitisation.

#### Skin sensitization

**Skin sensitization** May cause sensitisation.

#### Carcinogenicity

**Carcinogenicity** Data lacking.

**IARC carcinogenicity** IARC Group 3 Not classifiable as to its carcinogenicity to humans.

#### Specific target organ toxicity - single exposure

**STOT - single exposure** May cause respiratory irritation.

#### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Inhalation - May cause damage to organs through prolonged or repeated exposure

## TensorGrip C10 Polyurethane Bead Adhesive

### Aspiration hazard

Aspiration hazard No data available.

## 12. Ecological Information

### Toxicity

### Persistence and degradability

### Bioaccumulative potential

### Mobility in soil

### Results of PBT and vPvB assessment

### Other adverse effects

## 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. (TDG) 3501

UN No. (ICAO) 3501

UN No. (DOT) 3501

### UN proper shipping name

**Proper shipping name (TDG)** Chemical Under Pressure, Flammable, N.O.S. (1,1, Difluoroethane (152a))

**Proper shipping name (DOT)** Chemical Under Pressure, Flammable, N.O.S. (1,1, Difluoroethane (152a))

### Transport hazard class(es)

TDG class 2

TDG label(s) 2.1

### Transport labels



### Packing group

Not applicable.

### Environmental hazards

### Special precautions for user

## 15. Regulatory information

### International Regulations

### US Federal Regulations

#### **CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

The following ingredients are listed or exempt:



## TensorGrip C10 Polyurethane Bead Adhesive

### *Monomeric MDI*

Final CERCLA RQ: 5000(2270) pounds (Kilograms)

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

#### *1,1, Difluoroethane (152a)*

Fire  
Pressure  
Hazard  
Acute  
Health hazard

#### *Polymeric MDI*

Acute  
Health hazard

#### *Monomeric MDI*

Chronic  
Health hazard  
Acute  
Health hazard

### **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 or any other reproductive harm.

#### **California Directors List of Hazardous Substances**

The following ingredients are listed or exempt:

##### *Monomeric MDI*

Present.

#### **Massachusetts "Right To Know" List**

The following ingredients are listed or exempt:

##### *1,1, Difluoroethane (152a)*

Present

#### **New Jersey "Right To Know" List**

The following ingredients are listed or exempt:

##### *1,1, Difluoroethane (152a)*

Present.

##### *Polymeric MDI*

Present.

##### *Monomeric MDI*

Present.

#### **Pennsylvania "Right To Know" List**

The following ingredients are listed or exempt:

##### *1,1, Difluoroethane (152a)*

Present.

##### *Polymeric MDI*

Present.

### **Inventories**

#### **US - TSCA**

The following ingredients are listed or exempt:

## TensorGrip C10 Polyurethane Bead Adhesive

*2,2'-dimorpholinyldiethyl ether (6425-39-4)*

Present.

*Monomeric MDI*

Present.

### 16. Other information

<b>Revision date</b>	9/28/2016
<b>Revision</b>	1
<b>Supersedes date</b>	5/7/2016
<b>SDS No.</b>	21857
<b>Hazard statements in full</b>	<p>USH03 May displace oxygen and cause rapid suffocation</p> <p>H222 Extremely flammable aerosol.</p> <p>H280 Contains gas under pressure; may explode if heated.</p> <p>H302 Harmful if swallowed.</p> <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H319 Causes serious eye irritation.</p> <p>H332 Harmful if inhaled.</p> <p>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>H335 May cause respiratory irritation.</p> <p>H351 Suspected of causing cancer.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p>
<b>ACA HMIS Health rating.</b>	Slight hazard. (1)
<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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