# SAFETY DATA SHEET
# Tensorgrip P120 Polyurethane Bead Adhesive

## 1. Identification

### Product identifier

**Product name** Tensorgrip P120 Polyurethane Bead Adhesive

**Product number** USA

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

**Application** Pressurized Polyurethane Bead 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** Flam. Aerosol 2 - H223 Press. Gas, Compressed - H280

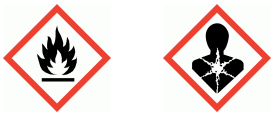
**Health hazards** Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335 STOT RE 2 - H373

**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

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**Hazard statements**

H302+H332 Harmful if swallowed or if inhaled.
H223 Flammable aerosol.
H280 Contains gas under pressure; may explode if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H335 May cause respiratory irritation.
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.
P301+P312 If swallowed: Call a poison center/ doctor if you feel unwell.
P302+P352 If on skin: Wash with plenty of water.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P412 Do not expose to temperatures exceeding 50°C/122°F.

**Supplemental label information**

AT(o) 5.0% of the mixture consists of ingredient(s) of unknown acute oral toxicity.

**Contains**

Polymeric MDI, Monomeric MDI, 2,2'-dimorpholinyldiethyl ether (6425-39-4), 1,1, Difluoroethane (152a)

### Other hazards

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

## 3. Composition/information on ingredients

### Mixtures

**Polymeric MDI** **30-60%**

CAS number: 9016-87-9

**Classification**
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

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| **Monomeric MDI** | **30-60%** |
|---|---|
| CAS number: 101-68-8 | |

**Classification**
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

| **2,2'-dimorpholinyldiethyl ether (6425-39-4)** | **5-10%** |
|---|---|
| CAS number: 6425-39-4 | |

**Classification**
Eye Irrit. 2 - H319

| **1,1, Difluoroethane (152a)** | **5-10%** |
|---|---|
| CAS number: 75-37-6 | |

**Classification**
Flam. Aerosol 1 - H222
Press. Gas, Compressed - 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

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**Inhalation** 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.

**Ingestion** 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.

**Skin contact** 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.

**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.

## 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.

**Hazardous combustion products** Oxides of carbon. Oxides of nitrogen. Isocyanates. Trace amounts of: Hydrogen cyanide (HCN).

### 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

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**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

**Monomeric MDI**

Long-term exposure limit (8-hour TWA): ACGIH 0.005 ppm
Ceiling exposure limit: OSHA 0.02 ppm 0.2 mg/m³

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

Long-term exposure limit (8-hour TWA): WEEL:US.AIHA = Workplace Environmental Exposure Level Guides 2700 mg/m³ 1000 ppm

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'-dimorpholinyldiethyl 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.

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| | |
|---|---|
| **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** | 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** | Foam Bead |
| **Color** | Pale yellow. |
| **Odor** | Faint. Musty (mouldy). |
| **Flash point** | > -50°C/-58°F Closed cup. |
| **Upper/lower flammability or explosive limits** | Lower flammable/explosive limit: 4.32 % Upper flammable/explosive limit: 17.35 % |
| **Relative density** | 1.13 @ 23.3°C/74°F |
| **Solubility(ies)** | Insoluble 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. |
| **Materials to avoid** | Amines. Strong acids. Strong bases. Oxidizing agents. Peroxides. |
| **Hazardous decomposition products** | Fire creates: Vapours/gases/fumes of: Oxides of nitrogen. Oxides of carbon. Isocyanates. Trace amounts of: Peroxides |

## 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity - oral

**ATE oral (mg/kg)** 568.18

#### Acute toxicity - inhalation

**ATE inhalation (gases ppm)** 90,000.0

**ATE inhalation (vapours mg/l)** 12.5

### Toxicological information on ingredients.

#### Polymeric MDI

##### Acute toxicity - oral

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

##### Acute toxicity - inhalation

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| | |
|---|---|
| **Acute toxicity inhalation ($LC_{50}$ 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. |

**Monomeric MDI**

**Acute toxicity - oral**

| | |
|---|---|
| **Acute toxicity oral ($LD_{50}$ mg/kg)** | 9,200.0 |
| **Species** | Rat |
| **ATE oral (mg/kg)** | 500.0 |

**Acute toxicity - inhalation**

| | |
|---|---|
| **Acute toxicity inhalation ($LC_{50}$ 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 |

**Aspiration hazard**

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| | |
|---|---|
| **Aspiration hazard** | No data available. |

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

| | |
|---|---|
| **Toxicological effects** | No data recorded. |
| **Carcinogenicity** | |
| **Carcinogenicity** | No information available. |
| **Aspiration hazard** | |
| **Aspiration hazard** | No data available. |

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

| | |
|---|---|
| **Acute toxicity - oral** | |
| **Acute toxicity oral ($LD_{50}$ mg/kg)** | 1,500.0 |
| **Species** | Rat |
| **ATE oral (mg/kg)** | 500.0 |
| **Acute toxicity - inhalation** | |
| **Acute toxicity inhalation ($LC_{50}$ 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. |

## 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

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|---|---|
| **Air transport notes** | Cargo aircraft only. <75kg |

**UN Number**

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

**UN proper shipping name**

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

**Transport hazard class(es)**

| | |
|---|---|
| **DOT hazard class** | 2.1 |

# Tensorgrip P120 Polyurethane Bead Adhesive

**Transport labels**


## Packing group

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

## 15. Regulatory information

**National regulations** The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

**Guidance** CHIP for everyone HSG228.
Workplace Exposure Limits EH40.
Safety Data Sheets for Substances and Preparations.
Approved Classification and Labelling Guide (Sixth edition) L131.

## US Federal Regulations

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

The following ingredients are listed or exempt:

*Monomeric MDI*

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

**SARA 313 Emission Reporting**

The following ingredients are listed or exempt:

*Monomeric MDI*

1.0 %
1.0 %

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

Health hazard

*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**

Ths 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:

# Tensorgrip P120 Polyurethane Bead Adhesive

*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**

**Canada - DSL/NDSL**
The following ingredients are listed or exempt:

*1,1, Difluoroethane (152a)*
All the ingredients are listed or exempt.

**US - TSCA**
The following ingredients are listed or exempt:

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

*1,1, Difluoroethane (152a)*
All the ingredients are listed or exempt.

*Monomeric MDI*
Present.

## 16. Other information

| | |
|---|---|
| **Revision date** | 12/24/2018 |
| **Revision** | 6 |
| **Supersedes date** | 7/3/2018 |
| **SDS No.** | 22374 |

# Tensorgrip P120 Polyurethane Bead Adhesive

| | |
|---|---|
| **Hazard statements in full** | H223 Flammable aerosol.<br>H280 Contains gas under pressure; may explode if heated.<br>H302 Harmful if swallowed.<br>H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H319 Causes serious eye irritation.<br>H332 Harmful if inhaled.<br>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.<br>H335 May cause respiratory irritation.<br>H351 Suspected of causing cancer.<br>H373 May cause damage to organs through prolonged or repeated exposure.<br>USH03 May displace oxygen and cause rapid suffocation |
| **ACA HMIS Health rating.** | Moderate hazard. (2) |
| **ACA HMIS Flammability rating.** | Extremely flammable. (4) |
| **ACA HMIS Physical hazard rating.** | Normally stable. (0) |
| **ACA HMIS Personal protection rating.** | B |

**DIRECTIONS FOR USE**

**PRODUCT LOGO**