

# SAFETY DATA SHEET TensorGrip C09 Polyurethane Bead Adhesive

### 1. Identification

**Product identifier** 

Product name TensorGrip C09 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** 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 2 - H223 Press. Gas, Compressed - H280

Health hazards Acute Tox. 4 - H302 Acute Tox. 4 - H312 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

Hazard statements H223 Flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H302+H332 Harmful if swallowed or if inhaled.

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** 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

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

P308+P313 If exposed or concerned: Get medical advice/ attention. 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	

### 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

Unknown Classification 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.

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### Most important symptoms and effects, both acute and delayed

**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.

#### 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.

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

### 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 1.2.

#### 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.

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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 Foam Bead

Color Pale yellow.

Odor Faint. Musty (mouldy).

Flash point > -50°C/-58°F CC (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 Not applicable.

### 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

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ATE oral (mg/kg) 500.0

Acute toxicity - inhalation

Acute toxicity inhalation 0.49

(LC50 vapours mg/l)

**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 (LD50

9,200.0

mg/kg)

**Species** Rat

ATE oral (mg/kg) 500.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC<sub>50</sub> vapours mg/l)

2.24 Rat

11.0

ATE inhalation (vapours

mg/l)

**Species** 

Serious eye damage/irritation

Serious eye Slightly irritating.

damage/irritation

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

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

Aspiration hazard

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 (LD₅o

mg/kg)

1,500.0

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - inhalation

Acute toxicity inhalation

383,000.0

(LC50 gases ppmV)

Species Rat

ATE inhalation (gases

ppm)

4,500.0

Carcinogenicity

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

### 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 (DOT) Chemical Under Pressure, Flammable, N.O.S. (Monomeric MDI, 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:

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

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### **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:

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 9/28/2016

Revision 2

### TensorGrip C09 Polyurethane Bead Adhesive

Supersedes date 9/28/2016

**SDS No.** 21856

Hazard statements in full H223 Flammable aerosol.

H229 Pressurized container: may burst if heated.

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.

H332 Harmful if inhaled.

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.

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.

В

The information in this Material Safety Data Sheet (MSDS) 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 manufacturer of this product is fit for a particular purpose and suitable for users' method of use or application. It is essential that the user evaluate this product, not the manufacturer, to determine whether it is fit for a particular purpose and suitable for users' method of use or application