



## SAFETY DATA SHEET

### Tensorgrip L20AA CA Compliant, Low VOC Contact Adhesive

#### 1. Identification

##### Product identifier

**Product name** Tensorgrip L20AA CA Compliant, Low VOC Contact Adhesive  
**Product number** USA

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

**Application** Aerosol 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

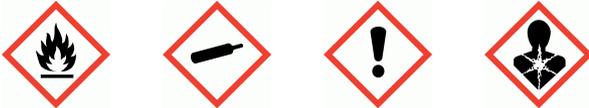
##### Classification of the substance or mixture

**Physical hazards** 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 STOT SE 3 - H336 Asp. Tox. 1 - H304

**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.  
 H304 May be fatal if swallowed and enters airways.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H336 May cause drowsiness or dizziness.

## Tensorgrip L20AA CA Compliant, Low VOC Contact Adhesive

<b>Precautionary statements</b>	<p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352 If on skin: Wash with plenty of water.</p> <p>P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.</p>
<b>Supplemental label information</b>	AT(o) 18.5% of the mixture consists of ingredient(s) of unknown acute oral toxicity.
<b>Contains</b>	Methyl Acetate, Propane, Isobutane, Heptane

### Other hazards

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

### 3. Composition/information on ingredients

#### Mixtures

<b>Methyl Acetate</b> <span style="float: right;"><b>10-30%</b></span> CAS number: 79-20-9
<b>Classification</b> Flam. Liq. 2 - H225 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Eye Irrit. 2A - H319 STOT SE 3 - H336
<b>Isobutane</b> <span style="float: right;"><b>10-30%</b></span> CAS number: 75-28-5
<b>Classification</b> Flam. Gas 1 - H220 Press. Gas, Compressed - H280
<b>Propane</b> <span style="float: right;"><b>10-30%</b></span> CAS number: 74-98-6
<b>Classification</b> Flam. Gas 1 - H220 Press. Gas, Liquefied - H280 Acute Tox. 4 - H332 Simple Asphyxiant - USH03

## Tensorgrip L20AA CA Compliant, Low VOC Contact Adhesive

<b>Heptane</b>	<b>10-30%</b>
CAS number: 142-82-5	
<b>Classification</b>	
Flam. Liq. 2 - H225	
Acute Tox. 4 - H302	
Acute Tox. 4 - H312	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
STOT SE 3 - H336	
Asp. Tox. 1 - H304	
Not relevant.	

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.
<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.

## Tensorgrip L20AA CA Compliant, Low VOC Contact Adhesive

### 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

#### 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

## Tensorgrip L20AA CA Compliant, Low VOC Contact Adhesive

### Occupational exposure limits

#### Methyl Acetate

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm

Short-term exposure limit (15-minute): ACGIH 250 ppm

Long-term exposure limit (8-hour TWA): OSHA 200 ppm 610 mg/m<sup>3</sup>

#### Isobutane

Long-term exposure limit (8-hour TWA): ACGIH 1000 ppm

Long-term exposure limit (8-hour TWA): NIOSH: National Institute of Occupational Safety and Health 800 ppm 1900 mg/m<sup>3</sup>

#### Propane

Long-term exposure limit (8-hour TWA): NIOSH: National Institute of Occupational Safety and Health 1800 mg/m<sup>3</sup> 1000 ppm

Long-term exposure limit (8-hour TWA): OSHA 1800 ppm 1000 mg/m<sup>3</sup>

#### Heptane

Long-term exposure limit (8-hour TWA): ACGIH 400 ppm

Short-term exposure limit (15-minute): ACGIH 500 ppm

Long-term exposure limit (8-hour TWA): OSHA 500 ppm 2000 mg/m<sup>3</sup>

ACGIH = American Conference of Governmental Industrial Hygienists.

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. 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 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.
Color	Clear. Red.
Odor	Organic solvents.
Initial boiling point and range	-42.1°C/-43.8°F @

## Tensorgrip L20AA CA Compliant, Low VOC Contact Adhesive

<b>Flash point</b>	-104°C/-155°F Method: Closed cup.
<b>Upper/lower flammability or explosive limits</b>	Upper flammable/explosive limit: 16 g/100 g Lower flammable/explosive limit: 1.1 g/100 g
<b>Relative density</b>	.85
<b>Solubility(ies)</b>	Insoluble in water
<b>Volatile organic compound</b>	This product contains a maximum VOC content of 198 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) 901.35

##### Acute toxicity - dermal

ATE dermal (mg/kg) 2,433.09

##### Acute toxicity - inhalation

ATE inhalation (gases ppm) 24,324.32

ATE inhalation (vapours mg/l) 17.27

#### Toxicological information on ingredients.

#### Methyl Acetate

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 5,000.0

Species Rat

ATE oral (mg/kg) 500.0

##### Acute toxicity - dermal

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

Species Rat

ATE dermal (mg/kg) 1,100.0

##### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l) 49.28

Species Rat

## Tensorgrip L20AA CA Compliant, Low VOC Contact Adhesive

ATE inhalation (vapours mg/l) 11.0

### Isobutane

Toxicological effects No information available.

### Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

Inhalation Suffocation (asphyxiant) hazard

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

Eye contact Spray will evaporate and cool quickly and may cause frostbite or cold burns if in contact with skin.

### Propane

#### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> gases ppmV) 1,442.0

Species Rat

Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l) 1,442.0

Species Rat

ATE inhalation (gases ppm) 4,500.0

ATE inhalation (vapours mg/l) 11.0

### Heptane

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 5,000.0

Species Rat

ATE oral (mg/kg) 500.0

#### Acute toxicity - dermal

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

Species Rabbit

ATE dermal (mg/kg) 1,100.0

#### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l) 29.3

## Tensorgrip L20AA CA Compliant, Low VOC Contact Adhesive

<b>Species</b>	Rat
<b>ATE inhalation (vapours mg/l)</b>	11.0
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Does not contain any substances known to be carcinogenic.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	May cause drowsiness or dizziness

**General information** Absorbtion of large quantities may cause: Narcosis. Death.

### 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. (ICAO)** 1950

**UN No. (DOT)** Limited Quantity <1L, Aerosol

#### UN proper shipping name

**Proper shipping name (DOT)** Aerosols, Flammable

#### Transport hazard class(es)

#### Transport labels



#### Packing group

Not applicable.

### 15. Regulatory information

#### US Federal Regulations

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

*Isobutane*

Fire  
Pressure  
Hazard

*Propane*

Yes.

## Tensorgrip L20AA CA Compliant, Low VOC Contact Adhesive

### *Heptane*

Fire  
Acute  
Chronic  
Health hazard

### *Methyl Acetate*

Fire  
Acute  
Chronic  
Health hazard

## **US State Regulations**

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

#### *Isobutane*

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

#### *Heptane*

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

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

#### *Isobutane*

Present

#### *Propane*

Present

#### *Heptane*

Present

#### *Methyl Acetate*

Present

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

#### *Isobutane*

Present.

#### *Propane*

Present.

#### *Heptane*

Present.

#### *Methyl Acetate*

Present.

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

#### *Isobutane*

Present.

#### *Propane*

Present.

#### *Heptane*

Present.

#### *Methyl Acetate*

Present.

## **Inventories**

## Tensorgrip L20AA CA Compliant, Low VOC Contact Adhesive

### Canada - DSL/NDSL

*Propane*

DSL  
Present.

*Heptane*

All the ingredients are listed or exempt.

*Methyl Acetate*

Present.

### US - TSCA

*Propane*

Present.

*Heptane*

Present.

*Methyl Acetate*

Present.

### 16. Other information

<b>Revision date</b>	8/21/2017
<b>Revision</b>	4
<b>Supersedes date</b>	4/3/2017
<b>SDS No.</b>	21408
<b>Hazard statements in full</b>	<p>USH03 May displace oxygen and cause rapid suffocation</p> <p>H220 Extremely flammable gas.</p> <p>H223 Flammable aerosol.</p> <p>H225 Highly flammable liquid and vapor.</p> <p>H280 Contains gas under pressure; may explode if heated.</p> <p>H302 Harmful if swallowed.</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H312 Harmful in contact with skin.</p> <p>H315 Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H332 Harmful if inhaled.</p> <p>H336 May cause drowsiness or dizziness.</p>
<b>ACA HMIS Health rating.</b>	Moderate hazard. (2)
<b>ACA HMIS Flammability rating.</b>	Ignites easily. (3)
<b>ACA HMIS Physical hazard rating.</b>	Normally stable. (0)
<b>ACA HMIS Personal protection rating.</b>	B

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