

# LB28 HIGH-TEMPERATURE FLAMMABLE BRUSH GRADE CONTACT ADHESIVE

DATA SHEET  
**Tensorbond**

## PRODUCT DESCRIPTION

**TensorBond® LB28** is a flammable high performance, industrial brush contact adhesive formulated for general contact bonding.

**TensorBond® LB28** is designed for laminate and general bonding to many substrates via traditional industrial brush methods.

## APPLICATIONS

- Bonds laminate to particle board, including melamine, metals and most plastics
- Also bonds: veneers, fabrics, upholstery, foam, cork, leather, fiberglass, and rubber
- Laminating flexible material in nearly any application
- Excellent for small crevices and narrow edge banding, especially where overspray cannot be tolerated

## DIRECTIONS FOR USE

- **TensorBond® LB28** should be applied to both surfaces to be bonded, 80% to 100% coverage. Allow to dry (until dry to the touch) parts should be mated under pressure. Apply pressure with a hand laminate roller or nip roller. Bonds should be made as soon practical. If adhesive is left to dry for over 30 minutes, parts should be recoated. Normal coverage required with web spray pattern is approximately 80%; however, porous surfaces may need a second coat. Initial bond is strong enough to allow cutting or trimming immediately although ultimate strength is achieved in 1-3 days. Store away from heat, flames or other sources of ignition.

### Canister System Recommendation:

- If you'd like to save time and increase your efficiency, Quin Global recommends using the Tensorgrip canister system – a pre-pressurized canister of adhesive. Ask us about this adhesive in a canister.

### QUIN GLOBAL US

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## BENEFITS

- Fast. High Tack
- Excellent coverage
- 80% of final strength achieved immediately
- Full strength achieved in 24 hours
- Fast drying with long open time (30-45 minutes)
- Excellent green strength and high heat resistance
- High temperature resistant
- No ODS (Ozone Depleting Substances)
- No chlorinated solvents

## CHEMICAL TECHNICAL DATA

### TYPICAL PROPERTIES

- |                |                         |
|----------------|-------------------------|
| • VOC Content: | 375.74 gm/l (3.14#/gal) |
| • Solids:      | 17-21%                  |
| • Viscosity:   | 400-700 cps             |
| • Appearance:  | Neutral                 |
| • Shelf Life:  | 12 Months               |
| • Solvent:     | Flammable               |
| • Weight:      | 6.71#/gal               |
| •              |                         |

### PACKAGING

- 1 gallon can
- 5 gallon pail
- 55 gallon drum

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.

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## SAFETY DATA SHEET LB28 Brush Grade Flammable Contact Adhesive

### 1. Identification

#### Product identifier

**Product name** LB28 Brush Grade Flammable Contact Adhesive  
**Product number** USA

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

**Application** Solvent-based Adhesive

#### Details of the supplier of the safety data sheet

**Supplier** Quin Global USA  
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 (Mon - Fri) 09:00 - 16:00

### 2. Hazard(s) identification

#### Classification of the substance or mixture

**Physical hazards** Flam. Liq. 3 - H226  
**Health hazards** Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Repr. 2 - H361fd STOT SE 3 - H336 STOT RE 2 - H373  
**Environmental hazards** Aquatic Chronic 2 - H411

#### 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

Warning

## LB28 Brush Grade Flammable Contact Adhesive

### Hazard statements

H226 Flammable liquid and vapor.  
 H302 Harmful if swallowed.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H336 May cause drowsiness or dizziness.  
 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H411 Toxic to aquatic life with long lasting effects.

### Precautionary statements

P301+P310 If swallowed: Immediately call a poison center/doctor.  
 P302+P352 If on skin: Wash with plenty of water.  
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 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.  
 P312 Call a poison center/doctor if you feel unwell.

### Contains

Acetone, n-Hexane, Heptane, Toluene

### Other hazards

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

### 3. Composition/information on ingredients

#### Substances

#### Mixtures

<b>Acetone</b>	<b>30-60%</b>
CAS number: 67-64-1	
<b>Classification</b>	
Flam. Liq. 2 - H225	
Acute Tox. 4 - H302	
Acute Tox. 4 - H312	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	
STOT SE 3 - H336	

## LB28 Brush Grade Flammable Contact Adhesive

<b>n-Hexane</b>	<b>10-30%</b>
CAS number: 110-54-3 M factor (Acute) = 1	
<b>Classification</b> Flam. Liq. 2 - H225 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Repr. 2 - H361f STOT SE 3 - H336 STOT RE 2 - H373 Aquatic Chronic 2 - H411	
<b>Heptane</b>	<b>10-30%</b>
CAS number: 142-82-5 M factor (Acute) = 1                      M factor (Chronic) = 1	
<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 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	
<b>Toluene</b>	<b>10-30%</b>
CAS number: 108-88-3	
<b>Classification</b> Flam. Liq. 2 - H225 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304	

The Full Text for all Hazard Statements are Displayed in Section 16.

#### 4. First-aid measures

##### Description of first aid measures

## LB28 Brush Grade Flammable Contact Adhesive

<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. Nausea, vomiting. Central nervous system depression. 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. Remove contaminated clothing. 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**

#### Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

#### Special hazards arising from the substance or mixture

<b>Specific hazards</b>	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.
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#### Advice for firefighters

<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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### **6. Accidental release measures**

## LB28 Brush Grade Flammable Contact Adhesive

### 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.

### 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

##### **Acetone**

Long-term exposure limit (8-hour TWA): ACGIH 500 ppm

Short-term exposure limit (15-minute): ACGIH 750 ppm

A4

Long-term exposure limit (8-hour TWA): OSHA 1000 ppm 2400 mg/m<sup>3</sup>

Ceiling exposure limit: NIOSH: National Institute of Occupational Safety and Health 250 ppm 590 mg/m<sup>3</sup> vapour

##### **n-Hexane**

Long-term exposure limit (8-hour TWA): ACGIH 50 ppm

Sk

Ceiling Value: OSHA\_TRANS 500 ppm 1800 mg/m<sup>3</sup>

Long-term exposure limit (8-hour TWA): OSHA 50 ppm 180 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>

##### **Toluene**

## LB28 Brush Grade Flammable Contact Adhesive

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm

A4

Short-term exposure limit (15-minute): NIOSH: National Institute of Occupational Safety and Health 150 ppm 560 mg/m<sup>3</sup>

Ceiling Value: OSHA 300 ppm

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

ACGIH = American Conference of Governmental Industrial Hygienists.

Sk = Danger of cutaneous absorption.

A4 = Not Classifiable as a Human Carcinogen.

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 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

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	Liquid.
Color	Clear. Amber.
Odor	Ketone.
Initial boiling point and range	56°C/133°F @
Flash point	-25.99°C/-14.78°F
Solubility(ies)	Negligibly soluble in water
Volatile organic compound	This product contains a maximum VOC content of 579 g/l.

## 10. Stability and reactivity

**Stability** Stable at normal ambient temperatures and when used as recommended.



## LB28 Brush Grade Flammable Contact Adhesive

<b>Possibility of hazardous reactions</b>	Vapors may form explosive mixture with air.
<b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition. Avoid contact with the following materials: Oxidizing agents. Reducing agents.
<b>Materials to avoid</b>	Oxidizing agents. Reducing agents. Bases. Acetone reacts violently with phosphorous oxychloride
<b>Hazardous decomposition products</b>	Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Aldehydes. Hydrocarbons.

### 11. Toxicological information

#### Information on toxicological effects

##### Acute toxicity - oral

ATE oral (mg/kg) 537.6344086

##### Acute toxicity - dermal

ATE dermal (mg/kg) 1,182.79569892

##### Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 11.82795699

#### Toxicological information on ingredients.

##### Acetone

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 5,800.0

Species Rat

ATE oral (mg/kg) 500.0

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 20,000.0

Species Rabbit

ATE dermal (mg/kg) 1,100.0

##### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l) 76.0

Species Rat

ATE inhalation (vapours mg/l) 11.0

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

STOT - single exposure May cause drowsiness or dizziness

Inhalation Mucosal irritations. Absorption.

## LB28 Brush Grade Flammable Contact Adhesive

<b>Ingestion</b>	Irritating. May cause nausea, stomach pain and vomiting. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
<b>Skin Contact</b>	This product is moderately irritating. May be absorbed through the skin. Repeated exposure may cause skin dryness or cracking.
<b>Eye contact</b>	This product is strongly irritating. Risk of corneal clouding.
<b>Route of entry</b>	Inhalation Skin and/or eye contact
<b>Target Organs</b>	Eyes

### n-Hexane

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 25,000.0

**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)** 171.6

**Species** Rat

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

#### Reproductive toxicity

**Reproductive toxicity - fertility** Suspected of damaging fertility.

#### Specific target organ toxicity - single exposure

**STOT - single exposure** May cause drowsiness or dizziness

**Target organs** Central nervous system

#### Specific target organ toxicity - repeated exposure

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

**Target organs** Central nervous system

#### Aspiration hazard

**Aspiration hazard** Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

## LB28 Brush Grade Flammable Contact Adhesive

<b>General information</b>	After absorption. Tiredness. Narcosis. After long term exposure to the chemical: CNS disorders, paralysis symptoms. (It generally applies to aliphatic hydrocarbons with 6 - 18 carbon atoms that they cause pneumonia, in some cases also pulmonary edema, upon direct inhalation, i.e. in conditions that can occur only in very special circumstances (nebulizations, spraying, inhalation of aerosols and similar.)) Absorbtion of large quantities may cause: Narcosis. Possible risk of adverse reproductive effects.
<b>Inhalation</b>	May cause drowsiness or dizziness. Vapors irritate the respiratory system.
<b>Ingestion</b>	Irritating. May cause nausea, stomach pain and vomiting.
<b>Skin Contact</b>	The product is irritating to eyes and skin.
<b>Eye contact</b>	Risk of corneal clouding.
<b>Route of entry</b>	Inhalation Skin and/or eye contact
<b>Target Organs</b>	Eyes Skin Respiratory system, lungs Central nervous system Peripheral nervous system

### 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

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 drowsiness or dizziness

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

### Toluene

#### Acute toxicity - oral

## LB28 Brush Grade Flammable Contact Adhesive

<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	636.0
<b>Species</b>	Rat
<b>ATE oral (mg/kg)</b>	500.0
<b><u>Acute toxicity - dermal</u></b>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	12,124.0
<b>Species</b>	Rabbit
<b>ATE dermal (mg/kg)</b>	1,100.0
<b><u>Acute toxicity - inhalation</u></b>	
<b>Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)</b>	28.1
<b>Species</b>	Rat
<b>ATE inhalation (vapours mg/l)</b>	11.0

### 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. 5L, 2. 60L

#### UN Number

**UN No. (DOT)** 1133 or Limited Quantity <5L

**UN No. (ICAO)** 1133

#### UN proper shipping name

**Proper shipping name (DOT)** Adhesives

#### Transport hazard class(es)

**DOT hazard class** 3

#### Transport labels



#### Packing group

II

### 15. Regulatory information

#### Inventories

## LB28 Brush Grade Flammable Contact Adhesive

### US - TSCA

Present.

### Heptane

### Toluene

### Acetone

### n-Hexane

### 16. Other information

<b>Revision date</b>	11/23/2015
<b>Revision</b>	4
<b>Supersedes date</b>	11/10/2015
<b>SDS No.</b>	21028
<b>Hazard statements in full</b>	H226 Flammable liquid and vapor. H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H336 May cause drowsiness or dizziness. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.
<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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