

QGALB28

HIGH TEMP
BRUSH GRADE
CONTACT ADHESIVE

Tensorbond

Tensorbond® QGALB28 is a brush grade adhesive designed for use in applications using the substrates listed.



Metal / Aluminum
Sheeting



Standard Laminate



MDF

PRODUCT DESCRIPTION

Tensorbond® QGALB28 is a flammable brush grade contact adhesive with high temperature resistance. Designed for bonding standard laminate to MDF and other common substrates in commercial cabinetry. Formulated to be brushed on or rolled on.

ADVANTAGES

- High Heat Resistance
- No ODS (Ozone Depleting Substances)
- Fast Drying
- Versatile Adhesive, bonding to most any surface
- Excellent Green Strength

DIRECTIONS FOR USE

- Apply to both surfaces to be bonded by brushing or rolling adhesive on.
- Allow to dry (2-4 minutes or 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 20 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.

HANDLING AND STORAGE

- Consult Safety Data Sheet prior to use.
- Do not store at temperatures over 120°F/50°C.
- Avoid exposure to direct sunlight.
- Do not store directly on concrete floor.
- Always store above 60°F/15°C
- When connected, keep valve open and hose pressurized at all times.
- Always test our adhesives to determine suitability for your particular application prior to use in production.

CHEMICAL TECHNICAL DATA

TYPICAL PROPERTIES	
Total Solids	17-21%
VOC Content	579 g/L
Color	Clear
System Flammability	Flammable
Solvent System	Acetone
Dry time	2-4 mins dependent on temp & humidity
Open time	20 mins
Shelf Life	12 months from date of manufacturer on un-opned container

PACKAGING	
PL	5 Gallon Pail
GAL	1 Gallon Can

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.

Tensorbond

SAFETY DATA SHEET Tensorbond QGALB28 High Temp. Brush Grade Adhesive SDS

1. Identification

Product identifier

Product name Tensorbond QGALB28 High Temp. Brush Grade Adhesive SDS

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
5510 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. 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

Hazard symbols



Signal word

Warning

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Hazard statements	<p>H226 Flammable liquid and vapor. H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled. 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.</p>
Precautionary statements	<p>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.</p>
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

Mixtures

Acetone	30-60%
CAS number: 67-64-1	
Classification	
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	
n-Hexane	20-30%
CAS number: 110-54-3	
M factor (Acute) = 1	
Classification	
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	

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

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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.
Specific end uses(s)	
Specific end use(s)	The identified uses for this product are detailed in section "1. Identification" under "Application".

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/m³

Ceiling exposure limit: NIOSH: National Institute of Occupational Safety and Health 250 ppm 590 mg/m³ vapour

n-Hexane

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

Sk

Ceiling Value: OSHA_TRANS 500 ppm 1800 mg/m³

Long-term exposure limit (8-hour TWA): OSHA 50 ppm 180 mg/m³

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/m³

Toluene

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/m³

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



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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 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	Liquid.
Color	Clear.
Odor	Ketone.
Odor threshold	No information available.
pH	No information available.
Melting point	No information available.
Initial boiling point and range	56°C/133°F @
Flash point	-25.99°C/-14.78°F
Evaporation rate	No information available.
Flammability (solid, gas)	Highly flammable liquid and vapour.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 1.2 % Upper flammable/explosive limit: 7.7 %
Vapor pressure	No information available.
Vapor density	No information available.
Relative density	.805
Solubility(ies)	Negligibly soluble in water
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	No information available.

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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.

Possibility of hazardous reactions Vapors may form explosive mixture with air.

Conditions to avoid Avoid heat, flames and other sources of ignition.

Materials to avoid Oxidizing agents. Reducing agents. Bases. Acetone reacts violently with phosphorous oxychloride

Hazardous decomposition products Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂). Aldehydes. Hydrocarbons.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 537.63

Acute toxicity - dermal

ATE dermal (mg/kg) 1,182.8

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 11.83

Toxicological information on ingredients.

Acetone

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,800.0

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 20,000.0

Species Rabbit

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 76.0

Species Rat

ATE inhalation (vapours mg/l) 11.0

Specific target organ toxicity - single exposure

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

n-Hexane

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 25,000.0

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.0

Species Rabbit

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ 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

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Aspiration hazard	Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
General information	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.)) Absorption of large quantities may cause: Narcosis. Possible risk of adverse reproductive effects.
Inhalation	May cause drowsiness or dizziness. Vapors irritate the respiratory system.
Ingestion	Irritating. May cause nausea, stomach pain and vomiting.
Skin Contact	The product is irritating to eyes and skin.
Eye contact	Risk of corneal clouding.
Route of exposure	Inhalation Skin and/or eye contact
Target Organs	Eyes Skin Respiratory system, lungs Central nervous system Peripheral nervous system

Heptane

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,000.0

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.0

Species Rabbit

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ 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

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

Toluene

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 636.0

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 12,124.0

Species Rabbit

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 28.1

Species Rat

ATE inhalation (vapours mg/l) 11.0

12. Ecological information

Bioaccumulative potential

Partition coefficient No information available.

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 IATA Pkg Inst 353 1. 5L, 2. 60L

UN Number

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

UN No. (ICAO) 1133

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

UN proper shipping name

Proper shipping name (TDG) Adhesives

Proper shipping name (ICAO) Adhesives

Proper shipping name (DOT) Adhesives

Transport hazard class(es)

TDG class 3

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TDG label(s) 3

Transport labels



Packing group

Packing group (International) II

ICAO packing group II

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)

Present.

Toluene

Final CERCLA RQ: 1000(454) pounds (Kilograms)

Acetone

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

n-Hexane

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

SARA 313 Emission Reporting

Toluene

1.0 %

n-Hexane

100%

SARA (311/312) Hazard Categories

Present.

Toluene

Fire
Chronic
Acute
Health hazard

Heptane

Fire
Acute
Chronic
Health hazard

Acetone

Acute
Chronic
Health hazard
Fire

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n-Hexane

Acute
Chronic
Health hazard
Fire

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

Present.

Toluene

Developmental toxin.

n-Hexane

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

Present.

Toluene

Heptane

Acetone

n-Hexane

Minnesota "Right To Know" List

Acetone

Present.

New Jersey "Right To Know" List

Present.

Toluene

Heptane

Acetone

n-Hexane

Pennsylvania "Right To Know" List

Present.

Toluene

Heptane

Acetone

n-Hexane

Inventories

Canada - DSL/NDSL

Toluene

DSL
Present.

Heptane

Present.

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Acetone

DSL

n-Hexane

DSL

US - TSCA

Present.

Toluene

Heptane

Acetone

n-Hexane

16. Other information

Revision date	12/1/2017
Revision	9
Supersedes date	11/16/2017
SDS No.	24752
Hazard statements in full	H225 Highly flammable liquid and vapor. H226 Flammable liquid and vapor. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. 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. H361d Suspected of damaging the unborn child. H361f Suspected of damaging fertility. 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.
ACA HMIS Health rating.	Moderate hazard. (2)
ACA HMIS Flammability rating.	Ignites easily. (3)
ACA HMIS Physical hazard rating.	Normally stable. (0)
ACA HMIS Personal protection rating.	B

DIRECTIONS FOR USE

PRODUCT LOGO

Tensorbond QGALB28 High Temp. Brush Grade Adhesive SDS

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