LB29 HIGH-TEMPERATURE NON-FLAM SPRAYABLE CONTACT ADHESIVE

DATA SHEET
Tensorbond®

PRODUCT DESCRIPTION

TensorBond® LB29 is a non-flammable high performance, sprayable industrial contact adhesive formulated for laminating and contact bonding.
TensorBond® LB29 is designed for laminate and general bonding to many substrates via traditional bulk spray equipment.

APPLICATIONS

- Laminating for furniture, fixtures, cabinets and casework
- Bonds laminate to particle board; including melamine, metals and most plastics
- Works well on most types of urethane and neoprene
- Also bonds: leather, veneers, fabrics, upholstery, foam, cork, fiberglass and many plastics
- Laminating flexible material in nearly any application
-

DIRECTIONS FOR USE

- **TensorBond® LB29** 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
5710 F ST. Omaha NE 68117
PH: +1 402 731 3636 | info.us@quin-global.com | www.quinglobal.com

QUIN GLOBAL
Tensorbond®

LB29 HIGH-TEMPERATURE NON-FLAM SPRAYABLE CONTACT ADHESIVE

DATA SHEET
Tensorbond

BENEFITS

- Non-flammable
- Oil resistant
- 80% of final strength achieved immediately
- Full strength achieved in 24 hours
- Fast drying with long open time (30 minutes)
- Excellent green strength
- High temperature resistant
- No ODS (Ozone Depleting Substances)

CHEMICAL TECHNICAL DATA

TYPICAL PROPERTIES

• VOC Content:	56 g/L
• Solids:	15-20% (Liquid)
• Viscosity:	250-300 cps
• Appearance:	Clear/Neutral
• Shelf Life:	12 Months
• Solvent:	Non-Flammable
• Weight:	10.2 lb/gal

PACKAGING

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

QUIN GLOBAL US
5710 F ST. Omaha NE 68117
PH: +1 402 731 3636 | info.us@quin-global.com | www.quinglobal.com

QUIN GLOBAL

Tensorbond

SAFETY DATA SHEET

LB29

1. Identification

Product identifier

Product name LB29

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
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

Not Classified

Health hazards

Acute Tox. 3 - H301 Acute Tox. 4 - H312 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Carc. 2 - H351 STOT SE 3 - H335, H336 STOT RE 2 - H373

Environmental hazards

Aquatic Chronic 3 - H412

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

LB29

H301 Toxic if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with national regulations.

Contains Methylene Chloride, Tetrachloroethylene

Other hazards

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

Other hazards

3. Composition/information on ingredients

Substances

Mixture Statement

Mixtures

Methylene Chloride **CAS number:** 75-09-2 **REACH registration number:** 01-2119480404-41-XXXX	**60-100%**
Classification Acute Tox. 3 - H301 Acute Tox. 4 - H312 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Carc. 2 - H351 STOT SE 3 - H335, H336 STOT RE 2 - H373	
Tetrachloroethylene **CAS number:** 127-18-4	**1-5%**
Classification Skin Irrit. 2 - H315 Carc. 2 - H351 Aquatic Chronic 2 - H411	

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

4. First-aid measures

Description of first aid measures

General information

Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. 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

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. Get medical attention.

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. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

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 product 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

Special hazards arising from the substance or mixture

Hazardous combustion products

Thermal decomposition or combustion products may include the following substances: Hydrogen chloride (HCl). Carbon monoxide (CO). Carbon dioxide (CO_2). Phosgene ($COCl_2$).

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.

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. 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 spilling. Avoid contact with skin and eyes. 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.

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 container tightly closed. Keep only in the original container.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

Methylene Chloride

Long-term exposure limit (8-hour TWA): ACGIH 50 ppm
A3
Short-term exposure limit (15-minute): OSHA 125 ppm

Tetrachloroethylene

Long-term exposure limit (8-hour TWA): ACGIH 25 ppm
Short-term exposure limit (15-minute): ACGIH 100 ppm
A3

ACGIH = American Conference of Governmental Industrial Hygienists.

A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.

OSHA = Occupational Safety and Health Administration.

Methylene Chloride (CAS: 75-09-2)

Immediate danger to life and health

2300 ppm

Tetrachloroethylene (CAS: 127-18-4)

Immediate danger to life and health

150 ppm

Exposure controls

Protective equipment

Appropriate engineering controls

This product must not be handled in a confined space without adequate ventilation. Provide adequate general and local exhaust ventilation.

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

LB29

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.

Odor

Organic solvents.

Initial boiling point and range

250°F @ 1013.25 mbar

Vapour density

Heavier than air

Relative density

~ 1.23

Solubility(ies)

Negligibly soluble in water

Volatile organic compound

This product contains a maximum VOC content of 55.6 g/l.

10. Stability and reactivity

Stability

Stable at normal ambient temperatures and when used as recommended.

Conditions to avoid

Avoid contact with the following materials: Oxidizing agents. Reducing agents.

Materials to avoid

Powdered metal. Amines. Strong bases. Strong oxidizing agents. Aluminum.

Hazardous decomposition products

Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO_2). Hydrogen chloride (HCl). Phosgene ($COCl_2$).

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg)

120.48192771

Acute toxicity - dermal

ATE dermal (mg/kg)

1325.30120482

Acute toxicity - inhalation

ATE inhalation (vapours mg/l)

LB29

13.25301205

Toxicological information on ingredients.

Methylene Chloride

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)
2,000.0

Species
Rat

ATE oral (mg/kg)
100.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)
2000.0

Species
Rat

ATE dermal (mg/kg)
1100

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)
52.0

Species
Rat

ATE inhalation (vapours mg/l)
11.0

Carcinogenicity
Cancinogenicity - rat - inhalation Limited evidence of carcinogenicity in animal studies

Target organ for carcinogenicity
Tumerigenic: Carcinogenic by RTECS criteria. Endochrine: Tumors

IARC carcinogenicity
IARC Group 2B Possibly carcinogenic to humans.

NTP carcinogenicity
Reasonably anticipated to be a human carcinogen.

Specific target organ toxicity - single exposure

STOT - single exposure
May cause respiratory irritation. May cause drowsiness or dizziness

Specific target organ toxicity - repeated exposure

STOT - repeated exposure
Inhalation - May cause damage to organs through prolonged or repeated exposure -Central nervous system Oral - May cause damage to organs through prolonged or repeated exposure -Liver, blood.

General information
RTECS: PA8050000

LB29

Tetrachloroethylene

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)
2,629.0

Species
Rat

ATE oral (mg/kg)
2,629.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)
5000.0

Species
Rabbit

ATE dermal (mg/kg)
5000.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)
34.2

Species
Rat

Carcinogenicity

IARC carcinogenicity
IARC Group 2A Probably carcinogenic to humans.

NTP carcinogenicity
Reasonably anticipated to be a human carcinogen.

Specific target organ toxicity - single exposure

STOT - single exposure
No information available.

Aspiration hazard
No data available.

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

UN proper shipping name

Proper shipping name (DOT) Not Regulated For Shipping

Transport hazard class(es)

Transport labels

Packing group

LB29

Not applicable.

15. Regulatory information

Inventories

US - TSCA

Present

16. Other information

Revision date	2/10/2015
Revision	1
Supersedes date	8/12/2014
SDS No.	20420
Hazard statements in full	H301 Toxic if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
ACA HMIS Health rating.	Moderate hazard. (2)
ACA HMIS Physical hazard rating.	Normally stable. (0)
ACA HMIS Personal protection rating.	B
ACA HMIS Flammability rating.	Will not burn. (0)