

As part of our WOODWORKING range, Tensorgrip® L17 is a web spray adhesive designed for use in fabricating countertops, cabinets and doors using the substrates listed above.



Standard
Laminate



FRP/GRP



Metal /
Aluminum
Sheeting



FRL



MDF



Web Spray



Class A Fire Rated



Heat Resistance
up to 250F/122C

PRODUCT DESCRIPTION

Tensorgrip® L17 is a high performance fire rated, industrial spray contact adhesive formulated for bonding decorative HPL (high pressure laminate) to a variety of substrates. Fire rated testing includes ASTM E1354 test method for heat and visible smoke release complying with FMVSS 302 Standards.

ADVANTAGES

- Class A Fire Rated
- Excellent for Fire Rated MDF
- Excellent Heat Resistance
- 100% Adhesive Transfer to Substrate
- Fully Portable System
- High Strength Permanent Bond

DIRECTIONS FOR USE

- Tensorgrip® L17 is designed as a portable, self-contained spray system for field or shop applications.
- Apply adhesive to both surfaces to be mated, at 80% to 100% coverage.
- Allow enough time (2-4 minutes or until dry to the touch) for the adhesive to become tacky before bonding.
- Parts should be mated with as much pressure as practical.
- 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.
- Canister system will spray adequately above 60° F. Canister system should be kept in warm area. In the event that the canister gets abnormally chilled, freezes or gives poor or sputtering spray, it should be warmed up before continued usage. Warming canister by immersion in warm water is recommended.
- Notice!!! Do not store at temperatures over 120° F.

CANISTER STORAGE/CHANGE OVER

- If you choose to leave the hose and spray gun on the canister, leave the canister valve in the open position. Do not disconnect the hose/gun from the canister. Close and lock the spray gun.
- To change or disconnect canister: Turn canister valve to the off position, spray out remaining adhesive from the hose, disconnect the hose and spray gun from the canister.
- Reconnect the hose and spray gun to a new canister of adhesive and turn the canister valve to re-pressurize. Or if you are NOT connecting to a new canister, connect hose to canister of cleaner (sold separately) and spray out until liquid is clear as the indication the hose/gun is clean.

CHEMICAL TECHNICAL DATA

| TYPICAL PROPERTIES | |
|---------------------|---|
| Total Solids | 22-28% |
| VOC Content | 233 g/L (Canister) & 30% by weight (Aerosol) |
| Color | Clear |
| System Flammability | Non-Flammable Adhesive & Flammable Propellant |
| Solvent System | Methylene Chloride |
| Dry time | 2-4 minutes dependent on temp & humidity |
| Open time | 1+ hours |
| Shelf Life | 18 months from date of manufacture |

| PACKAGING | |
|------------------|---------------------|
| 650ml (22 FL OZ) | Aerosol Can |
| 22L | Disposable Canister |
| 108L | Returnable Canister |
| 216L | Returnable Canister |

APPLICATION TOOLS

| TOOL | PART NUMBER | | | |
|---------------|---|----------|-----------|-----------|
| | | 22 LITER | 108 LITER | 216 LITER |
| Hoses | M130-12 (12') | x | x | x |
| | M130-18 (18') | x | x | x |
| | M130-25 (25') | | x | x |
| | M130-36 (36') | | | x |
| | M130-50 (50') | | | x |
| Spray Guns | M120 (standard gun) | x | x | x |
| Spray Tip | 9501B (3"-10" Med. Build Spray Pattern) | x | x | x |
| Hose Splitter | M300 (2-way splitter with 1 cap) | | x | x |

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 product to determine suitability for your particular application prior to use in production

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.



SAFETY DATA SHEET

Tensorgrip L17 Fire-Rated, High-Temp Contact Adhesive Aerosol

1. Identification

Product identifier

Product name Tensorgrip L17 Fire-Rated, High-Temp Contact Adhesive Aerosol

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 Quin Global US, Inc.
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. Aerosol 2 - H223 Press. Gas, Compressed - H280

Health hazards Acute Tox. 3 - H301 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Carc. 2 - H351 STOT SE 3 - H335, H336 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

Hazard symbols



Signal word

Danger

Tensorgrip L17 Fire-Rated, High-Temp Contact Adhesive Aerosol

| | |
|---------------------------------------|---|
| Hazard statements | <p>H223 Flammable aerosol.</p> <p>H280 Contains gas under pressure; may explode if heated.</p> <p>H301 Toxic if swallowed.</p> <p>H315 Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H351 Suspected of causing cancer.</p> <p>H335 May cause respiratory irritation.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p> |
| Precautionary statements | <p>P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.</p> <p>P260 Do not breathe vapor/ spray.</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>P312 Call a poison center/ doctor if you feel unwell.</p> |
| Supplemental label information | AT(o) 15.0% of the mixture consists of ingredient(s) of unknown acute oral toxicity. |
| Contains | Methylene Chloride, Propane, Isobutane |

Other hazards

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

3. Composition/information on ingredients

Mixtures

| | |
|---|---------------|
| Methylene Chloride | 30-60% |
| CAS number: 75-09-2 | |
| 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 | |
| Isobutane | 10-25% |
| CAS number: 75-28-5 | |
| Classification Flam. Gas 1 - H220 Press. Gas, Compressed - H280 | |

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| | |
|------------------------------|---------------|
| Propane | 10-25% |
| CAS number: 74-98-6 | |
| Classification | |
| Flam. Gas 1 - H220 | |
| Press. Gas, Liquefied - H280 | |
| 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. |

Most important symptoms and effects, both acute and delayed

| | |
|----------------------------|---|
| General information | High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| Inhalation | Prolonged or repeated exposure may cause the following adverse effects: Irritation of nose, throat and airway. Coughing. Headache. |
| Ingestion | Prolonged or repeated exposure may cause the following adverse effects: Gastrointestinal symptoms, including upset stomach. Nausea, vomiting. Diarrhea. |
| Skin contact | Prolonged contact may cause redness, irritation and dry skin. |
| Eye contact | Prolonged or repeated exposure may cause the following adverse effects: Irritation and redness, followed by blurred vision. |

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

Tensorgrip L17 Fire-Rated, High-Temp Contact Adhesive Aerosol

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

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

Long-term exposure limit (8-hour TWA): OSHA 25 ppm

Isobutane

Tensorgrip L17 Fire-Rated, High-Temp Contact Adhesive Aerosol

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/m³

Propane

Long-term exposure limit (8-hour TWA): NIOSH: National Institute of Occupational Safety and Health 1800 mg/m³ 1000 ppm

Long-term exposure limit (8-hour TWA): OSHA 1800 ppm 1000 mg/m³

ACGIH = American Conference of Governmental Industrial Hygienists.

A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.

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 |
| Odor | Organic solvents. |
| Odor threshold | Not available. |
| pH | Not available. |
| Melting point | Not available. |
| Initial boiling point and range | -31.1°C/-24°F |
| Flash point | -156°C/-248.8°F Method: |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |

Tensorgrip L17 Fire-Rated, High-Temp Contact Adhesive Aerosol

| | |
|---|---|
| Upper/lower flammability or explosive limits | Lower flammable/explosive limit: 1.8% Upper flammable/explosive limit: 9.5% |
| Vapor pressure | Not available. |
| Vapor density | Not determined. |
| Relative density | 1.22 |
| Solubility(ies) | Negligibly soluble in water |
| Partition coefficient | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition Temperature | Not available. |
| Viscosity | Not available. |
| Volatile organic compound | This product contains a maximum VOC content of 30% by weight . |

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 | Strong oxidizing agents. Aluminum. Magnesium. Amines. Strong alkalis. |
| Hazardous decomposition products | Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO ₂). Aldehydes. Hydrocarbons. |

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 160.08

Acute toxicity - dermal

ATE dermal (mg/kg) 2,071.56

Acute toxicity - inhalation

ATE inhalation (gases ppm) 30,000.0

ATE inhalation (vapours mg/l) 73.33

Toxicological information on ingredients.

Methylene Chloride

Acute toxicity - oral

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

Species Rat

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

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

Species Rat

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 52.0

Species Rat

ATE inhalation (vapours mg/l) 11.0

Carcinogenicity

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

Target organ for carcinogenicity Tumerigenic: Carcinogenic by RTECS criteria. Endocrine: 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

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

Tensorgrip L17 Fire-Rated, High-Temp Contact Adhesive Aerosol

Acute toxicity inhalation
(LC₅₀ gases ppmV) 1,442.0

Species Rat

Acute toxicity inhalation
(LC₅₀ vapours mg/l) 1,442.0

Species Rat

ATE inhalation (gases
ppm) 4,500.0

ATE inhalation (vapours
mg/l) 11.0

12. Ecological information

Bioaccumulative potential

Partition coefficient Not 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 Passenger Aircraft/Rail <75 kg. Cargo Aircraft Only <150 kg

UN Number

UN No. (International) UN1950

UN No. (TDG) 1950

UN No. (IMDG) 1950

UN No. (ICAO) 1950

UN No. (DOT) 1950

UN proper shipping name

Proper shipping name (TDG) AEROSOLS, FLAMMABLE (PROPANE, ISOBUTANE) 2.1, LTD QTY

Proper shipping name (IMDG) AEROSOLS, FLAMMABLE (PROPANE, ISOBUTANE) 2.1, LTD QTY

Proper shipping name (ICAO) AEROSOLS, FLAMMABLE (PROPANE, ISOBUTANE) 2.1, LTD QTY

Proper shipping name (DOT) AEROSOLS, FLAMMABLE (PROPANE, ISOBUTANE) 2.1, LTD QTY

Transport hazard class(es)

Transport labels



Packing group

Packing group (International) Not applicable.

Tensorgrip L17 Fire-Rated, High-Temp Contact Adhesive Aerosol

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.

Methylene Chloride

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

SARA 313 Emission Reporting

Present.

Methylene Chloride

0.1 %

SARA (311/312) Hazard Categories

Present.

Isobutane

Fire
Pressure
Hazard

Propane

Yes.

Methylene Chloride

Acute
Health hazard
Chronic
Health hazard

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

Present.

Isobutane

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

Methylene Chloride

Carcinogen.

Massachusetts "Right To Know" List

Present.

Isobutane

Propane

Methylene Chloride

New Jersey "Right To Know" List

Present.

Isobutane

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Propane

Methylene Chloride

Pennsylvania "Right To Know" List

Present.

Isobutane

Propane

Methylene Chloride

Inventories

Canada - DSL/NDSL

Propane

DSL

Present.

US - TSCA

Present.

Propane

Methylene Chloride

16. Other information

| | |
|---|---|
| Revision date | 2/6/2020 |
| Revision | 9 |
| Supersedes date | 2/6/2020 |
| SDS No. | 20696 |
| Hazard statements in full | H220 Extremely flammable gas. H223 Flammable aerosol. H280 Contains gas under pressure; may explode if heated. H301 Toxic if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H373 May cause damage to organs (Oral (Category 2), Inhalation (Category 2), Blood, Central nervous system, Liver) through prolonged or repeated exposure. 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. | Ignites easily. (3) |
| ACA HMIS Physical hazard rating. | Normally stable. (0) |
| ACA HMIS Personal protection rating. | B |

Tensorgrip L17 Fire-Rated, High-Temp Contact Adhesive Aerosol

DIRECTIONS FOR USE

PRODUCT LOGO

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.