L10 HIGH-TEMP CONTACT ADHESIVE

DATA SHEET

Tensorgrip®

As part of our **WOODWORKING** range, **L10** is a web spray adhesive designed for use in fabricating contours, countertops and cabinets using the substrates listed.

PRODUCT DESCRIPTION

TensorGrip® L10 is high performance industrial contact spray adhesive formulated for bonding laminate on porous or tough-to-bond materials.

ADVANTAGES

- High Tack
- Excellent high coverage
- 80% of final strength achieved immediately
- Full strength achieved in 24 hours
- Fast drying with long open time
- Excellent green strength and high heat resistance
- Over 220°F (105°C) temperature resistant

DIRECTIONS FOR USE

- **TensorGrip® L10** 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 valve on the canister open. 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 left in the hose, disconnect the spray hose and gun from the canister.
- Reconnect the spray hose to a new canister of adhesive. OR if you are NOT connecting to a new canister, connect hose to canister of cleaning solvent (sold separately) and spray out until liquid is clear which indicates that the hose and gun is clean.

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

QUIN GLOBAL

Tensorgrip®

L10 HIGH-TEMP CONTACT ADHESIVE

DATA SHEET

Tensorgrip®

CHEMICAL TECHNICAL DATA

TYPICAL PROPERTIES

• Total Solids	22-28%
• VOC Content	106 g/L
• Color	Clear or Quin Blue
• System Flammability	Non-Flammable Adhesive; Flammable Propellent
• Solvent System	Methylene Chloride
• Dry time	2-4 mins dependent on temp & humidity
• Open time	Long
• Shelf Life	18 months from date of manufacture

PACKAGING

• 650ml	Aerosol Cans
• 22L	Disposable Canister
• 108L	Returnable Canister
• 216L	Returnable Canister

STORAGE

HANDLING & STORAGE

- Consult Material 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

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

QUIN GLOBAL

Tensorgrip®

SAFETY DATA SHEET
Tensorgrip L10AA High Temp Contact Adhesive

1. Identification

Product identifier

Product name Tensorgrip L10AA High Temp 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 1 - H222 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

Pictogram

Signal word Danger

Tensorgrip L10AA High Temp Contact Adhesive

Hazard statements

H222 Extremely flammable aerosol.
H280 Contains gas under pressure; may explode if heated.
H301 Toxic if swallowed.
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.

Precautionary statements

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P260 Do not breathe vapor/ spray.
P302+P352 If on skin: Wash with plenty of water.
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.

Supplemental label information

AT(o) 15.0% of the mixture consists of ingredient(s) of unknown acute oral toxicity.

Contains

Methylene Chloride, Isobutane, Propane

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 **10-30%**

CAS number: 75-28-5

Classification
Flam. Gas 1 - H220
Press. Gas, Compressed - H280

Tensorgrip L10AA High Temp Contact Adhesive

Propane	**10-30%**
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 L10AA High Temp Contact Adhesive

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 L10AA High Temp Contact Adhesive

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 Red.
Odor	Organic solvents.
Initial boiling point and range	Not determined.
Flash point	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Vapor density	Not determined.
Relative density	1.22
Solubility(ies)	Negligibly soluble in water
Volatile organic compound	This product contains a maximum VOC content of 160.5 g/l.

Tensorgrip L10AA High Temp Contact Adhesive

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 (CO2). Aldehydes. Hydrocarbons.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 160.07532957

Acute toxicity - dermal

ATE dermal (mg/kg) 2,071.56308851

Acute toxicity - inhalation

ATE inhalation (gases ppm) 30,000.0

ATE inhalation (vapours mg/l) 73.33333333

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) 2,000.0

Species Rat

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} 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

Tensorgrip L10AA High Temp Contact Adhesive

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

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_{50} gases ppmV)	1,442.0
Species	Rat
Acute toxicity inhalation (LC_{50} 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

13. Disposal considerations

Waste treatment methods

Tensorgrip L10AA High Temp Contact Adhesive

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

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.

Tensorgrip L10AA High Temp Contact Adhesive

Isobutane

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

Methylene Chloride

Known to the State of California to cause cancer.

Massachusetts "Right To Know" List

Present.

Isobutane

Propane

Methylene Chloride

New Jersey "Right To Know" List

Present.

Isobutane

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	4/3/2017
Revision	3
Supersedes date	11/9/2016
SDS No.	20695

Tensorgrip L10AA High Temp Contact Adhesive

Hazard statements in full	USH03 May displace oxygen and cause rapid suffocation H220 Extremely flammable gas. H222 Extremely 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.
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