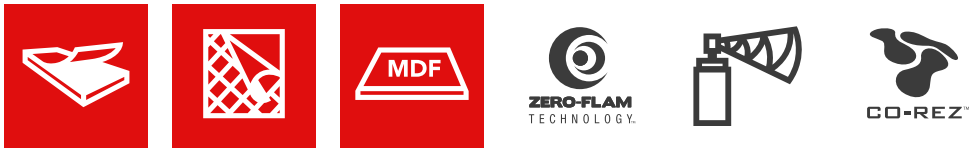
TECHNICAL DATA SHEET

L10N

NON-FLAM HIGH-TEMP CONTACT ADHESIVE

Tensorgrip®

As part of our **WOODWORKING** range, **L10N** is a web spray adhesive designed for use in fabricating countertops, cabinets, and doors using the substrates listed here.



Standard Laminate | FRL | MDF | ZERO-FLAM Technology | Web Spray | CO-REZ Technology

PRODUCT DESCRIPTION

Tensorgrip® L10N is a non-flammable high performance spray contact adhesive formulated for bonding decorative HPL (high pressure laminate) to a variety of substrates. This is designed to deliver a smooth, strong bond in nearly any laminate application while maintaining perfect non-flammable properties. Formulated with CO-REZ Technology, Tensorgrip® L10N is an exceptional formulation incorporating a highly engineered resin and gas matrix. The result is greater coverage from less canister weight.

ADVANTAGES

- Non-flammable
- VOC free
- Excellent high coverage
- High tack
- Fast dry with long open time
- Excellent heat resistance (up to 220°F/105°C)
- 100% adhesive transfer to substrate
- 80% of final strength immediately
- Full strength in 24 hours

DIRECTIONS FOR USE

- **Tensorgrip® L10N** 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 60ºF. 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 120ºF.
- If the canister will be unused for an extended period of time, spray for approx. 30 seconds to restore ideal spray pattern.

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.

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TECHNICAL DATA SHEET

LION

NON-FLAM HIGH-TEMP CONTACT ADHESIVE

Tensorgrip®

CHEMICAL TECHNICAL DATA

TYPICAL PROPERTIES	
Total Solids	22–28%
VOC Content	0 g/L (Canister)
Color	Clear or Quin Blue
System Flammability	Non-Flammable
Solvent System	Methylene Chloride
Dry time	2–4 mins dependent on temp & humidity
Open time	1+ hours
Shelf Life	18 months from date of manufacture

PACKAGING	
650ml	Aerosol Can is item L10-AA or L10R-AA
7L	Disposable Canister
22L	Disposable Canister
108L	Returnable Canister
216L	Returnable Canister

APPLICATION TOOLS

TOOL	PART NUMBER	CANISTER SIZES			
		7 LITER	22 LITER	108 LITER	216 LITER
Hoses	M140-8 (8')	x			
	M140-12 (12')		x	x	x
	M140-18 (18')		x	x	x
	M140-25 (25')			x	x
	M140-36 (36')				x
	M140-50 (50')				x
Spray Guns	M120 (standard gun)	x	x	x	x
Spray Tip	M201 (2"–8" low/medium build spray pattern)	x	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 our adhesives to determine suitability for your particular application prior to use in production

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SAFETY DATA SHEET
Tensorgrip L10N Non-Flam High Temp Contact Adhesive Canister

1. Identification

Product identifier

Product name Tensorgrip L10N Non-Flam High Temp Contact Adhesive Canister

Product number USA

Recommended use of the chemical and restrictions on use

Application Canister Spray Adhesive

Details of the supplier of the safety data sheet

Supplier

Quin Global US, Inc.
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 Aerosol 3 Press. Gas, Compressed - H280

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 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 L10N Non-Flam High Temp Contact Adhesive Canister

Hazard statements

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.
H351 Suspected of causing cancer.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P251 Pressurized container: Do not pierce or burn, even after use
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P308+P313 If exposed or concerned: Get medical advice/ attention.
P405 Store locked up.
P410+P403 Protect from sunlight. Store in a well-ventilated place.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C /122°F.

Contains

Methylene Chloride

Other hazards

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

3. Composition/information on ingredients

Mixtures

Methylene Chloride **60-75%**

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

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. 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.

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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.

Inhalation Irritating to respiratory system. Irritation of nose, throat and airway. Headache.

Ingestion Gastrointestinal symptoms, including upset stomach. Stomach pain. Nausea, vomiting. Diarrhea.

Skin contact Prolonged contact may cause redness, irritation and dry skin.

Eye contact May cause eye irritation. Prolonged contact may cause redness and/or tearing.

5. Fire-fighting measures

Special hazards arising from the substance or mixture

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.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO2). Carbon monoxide (CO). Hydrocarbons Aldehydes.

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. Pressurized container: Must not be exposed to temperatures above 50°C/120°F

Tensorgrip L10N Non-Flam High Temp Contact Adhesive Canister

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

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. 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	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. Liquid
Color	Clear. Blue.
Odor	Organic solvents.
Relative density	1.22
Solubility(ies)	Negligibly soluble in water
Volatile organic compound	This product contains a maximum VOC content of 0 g/l.

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.

Tensorgrip L10N Non-Flam High Temp Contact Adhesive Canister

Materials to avoid	May cause oxidation with: Aluminum.
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)	145.82

Acute toxicity - dermal

ATE dermal (mg/kg)	1,603.97

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
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

Tensorgrip L10N Non-Flam High Temp Contact Adhesive Canister

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

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. <75kg, 2. <150kg

UN Number

UN No. (TDG) 3500

UN No. (ICAO) 3500

UN No. (DOT) 3500

UN proper shipping name

Proper shipping name (TDG) Chemical Under Pressure, N.O.S. (Air, Compressed)

Proper shipping name (IMDG) Chemical Under Pressure, N.O.S. (Air, Compressed)

Proper shipping name (ICAO) Chemical Under Pressure, N.O.S. (Air, Compressed)

Proper shipping name (DOT) Chemical Under Pressure, N.O.S. (Air, Compressed)

Transport hazard class(es)

TDG class 2

TDG label(s) 2.2

Transport labels

Packing group

Packing group (International) Not applicable.

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

Tensorgrip L10N Non-Flam High Temp Contact Adhesive Canister

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

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

SARA 313 Emission Reporting

Methylene Chloride
0.1 %

SARA (311/312) Hazard Categories
Present.

Methylene Chloride
Acute
Health hazard
Chronic
Health hazard

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins
The following ingredients are listed or exempt:

Methylene Chloride

Carcinogen.

Massachusetts "Right To Know" List

Methylene Chloride
All the ingredients are listed or exempt.

New Jersey "Right To Know" List

Methylene Chloride
All the ingredients are listed or exempt.

Pennsylvania "Right To Know" List

Methylene Chloride
All the ingredients are listed or exempt.

Inventories

US - TSCA
Present.

Methylene Chloride
Present.

16. Other information

Revision date	3/4/2020
Revision	6
Supersedes date	12/1/2017
SDS No.	20347

Tensorgrip L10N Non-Flam High Temp Contact Adhesive Canister

Hazard statements in full	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. 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. 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.	Will not burn. (0)
ACA HMIS Physical hazard rating.	Normally stable. (0)
ACA HMIS Personal protection rating.	B

DIRECTIONS FOR USE

PRODUCT LOGO