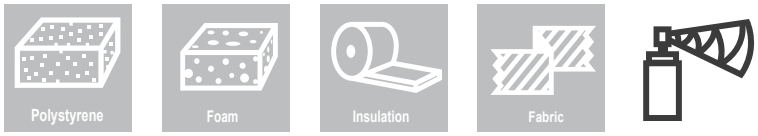
P322 FAST DRY PRESSURE SENSITIVE ADHESIVE

DATA SHEET

Tensorgrip



As part of our **INDUSTRIAL** range, **P322** is a web spray adhesive designed for use in applications using the substrates listed.

PRODUCT DESCRIPTION

TensorGrip P322 is an aggressive and fast-drying pressure sensitive adhesive designed to bond to a vast range of substrates and maintain tackiness.

ADVANTAGES

- Very fast drying
- Long lasting high tack (pressure sensitive)
- Moisture and weather-resistant bond
- Will not attack polystyrene
- Full strength achieved in 24 hours
- No ODS (ozone depleting substances)

DIRECTIONS FOR USE

- **TensorGrip P322** 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 60º 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 120º 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.

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P322 FAST DRY PRESSURE SENSITIVE ADHESIVE

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CHEMICAL TECHNICAL DATA

TYPICAL PROPERTIES

• Total Solids	26-32%
• VOC Content	552 g/L
• Color	Red, Clear, Green, Blue; Aerosols Green Only
• System Flammability	Flammable Adhesive; Flammable Propellant
• Solvent System	Flammable
• Dry time	2-4 mins dependent on temp & humidity
• Open time	Long
• Shelf Life	18 months from date of manufacture

PACKAGING

• 650 ml	Aerosol Can
• 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

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Tensorgrip

SAFETY DATA SHEET
Tensorgrip P322 Pressure Sensitive Adhesive Aerosol Can

1. Identification

Product identifier

Product name Tensorgrip P322 Pressure Sensitive Adhesive Aerosol Can

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 1 - H222 Press. Gas, Liquefied - H280

Health hazards Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 STOT SE 3 - H335, H336

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 Danger

Hazard statements

H222 Extremely flammable aerosol.
H280 Contains gas under pressure; may explode if heated.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Tensorgrip P322 Pressure Sensitive Adhesive Aerosol Can

Precautionary statements	P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking. P211 Do not spray on an open flame or other ignition source. P271 Use only outdoors or in a well-ventilated area. P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing. P312 Call a poison center/ doctor if you feel unwell. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C /122°F.
Supplemental label information	AT(d) 31.4% of the mixture consists of ingredient(s) of unknown acute dermal toxicity. AT(o) 31.4% of the mixture consists of ingredient(s) of unknown acute oral toxicity.
Contains	Dimethyl Ether, Isopentane, Acetone

Other hazards

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

3. Composition/information on ingredients

Mixtures

Dimethyl Ether **30-60%**

CAS number: 115-10-6

Classification
Flam. Gas 1 - H220
Press. Gas, Liquefied - H280
Acute Tox. 4 - H332
Skin Irrit. 2 - H315
Eye Irrit. 2B - H320
STOT SE 3 - H335, H336

Isopentane **30-60%**

CAS number: 78-78-4

M factor (Acute) = 1

Classification
Flam. Liq. 1 - H224
Eye Irrit. 2A - H319
STOT SE 3 - H336
Asp. Tox. 1 - H304
Aquatic Chronic 2 - H411

Acetone **1-5%**

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

Tensorgrip P322 Pressure Sensitive Adhesive Aerosol Can

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

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 liquid 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

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 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

Tensorgrip P322 Pressure Sensitive Adhesive Aerosol Can

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

Dimethyl Ether

Long-term exposure limit (8-hour TWA): WEEL:US.AIHA = Workplace Environmental Exposure Level Guides 1000 ppm

Isopentane

Long-term exposure limit (8-hour TWA): ACGIH 600 ppm

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

Tensorgrip P322 Pressure Sensitive Adhesive Aerosol Can

ACGIH = American Conference of Governmental Industrial Hygienists.
A4 = Not Classifiable as a Human Carcinogen.
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 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	Aerosol.
Color	Clear. Green.
Odor	Organic solvents.
Odor threshold	Not determined.
pH	Not determined.
Melting point	Not determined.
Initial boiling point and range	-25°C/-13°F
Flash point	-51°C/-60°F Not specified.
Evaporation rate	Not determined.
Flammability (solid, gas)	Highly flammable liquid and vapour.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 1.4 % Upper flammable/explosive limit: 18 %
Vapor pressure	Not determined.
Vapor density	Not determined.
Relative density	.702

Tensorgrip P322 Pressure Sensitive Adhesive Aerosol Can

Solubility(ies)	Negligibly soluble in water
Partition coefficient	Not determined.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not determined.
Viscosity	Not determined.
Volatile organic compound	This product contains a maximum VOC content of 82 %.

10. Stability and reactivity

Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Will not polymerize.
Conditions to avoid	Avoid heat, flames and other sources of ignition. Avoid contact with the following materials: Oxidizing agents. Reducing agents.
Materials to avoid	None known.
Hazardous decomposition products	Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg)	7,622.22

Acute toxicity - dermal

ATE dermal (mg/kg)	16,768.89

Acute toxicity - inhalation

ATE inhalation (gases ppm)	9,000.0
ATE inhalation (vapours mg/l)	244.44

Carcinogenicity

Carcinogenicity	Does not contain any substances known to be carcinogenic.

Toxicological information on ingredients.

Dimethyl Ether

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} gases ppmV)	308.5
Species	Rat
ATE inhalation (gases ppm)	4,500.0

Carcinogenicity

Carcinogenicity	Does not contain any substances known to be carcinogenic.

Tensorgrip P322 Pressure Sensitive Adhesive Aerosol Can

Specific target organ toxicity - single exposure

STOT - single exposure	May cause respiratory irritation. Central nervous system depression. Skin and eye irritation.

Aspiration hazard

Aspiration hazard	No data available.

Medical Symptoms	Central nervous system depression. Frostbite. Respiratory system irritation. Skin irritation. Eye irritation.

Isopentane

Acute toxicity - oral

ATE oral (mg/kg)	100.0

Acute toxicity - dermal

ATE dermal (mg/kg)	1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	1,280.0
Species	Rat
ATE inhalation (vapours mg/l)	11.0

Serious eye damage/irritation

Serious eye damage/irritation	Irritation of eyes is assumed.

Germ cell mutagenicity

Genotoxicity - in vitro	Ames Test Results: Negative.

Specific target organ toxicity - single exposure

STOT - single exposure	May cause drowsiness or dizziness

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard	Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

General information	Absorbtion of large quantities may cause: Dizziness. Euphoria. Agitation. Convulsions. Narcosis.

Acetone

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,800.0
Species	Rat

Tensorgrip P322 Pressure Sensitive Adhesive Aerosol Can

ATE oral (mg/kg)	500.0
Acute toxicity - dermal	
Acute toxicity dermal (LD_{50} mg/kg)	20,000.0
Species	Rabbit
ATE dermal (mg/kg)	1,100.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC_{50} dust/mist mg/l)	76.0
Species	Rat
ATE inhalation (vapours mg/l)	11.0
Specific target organ toxicity - single exposure	
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

12. Ecological information

Bioaccumulative potential

Partition coefficient	Not determined.

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

Tensorgrip P322 Pressure Sensitive Adhesive Aerosol Can

UN No. (ICAO) 1950

UN No. (DOT) 1950

UN proper shipping name

Proper shipping name (TDG) AEROSOLS, FLAMMABLE (DIMETHYL ETHER) 2.1, LTD QTY

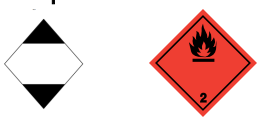
Proper shipping name (IMDG) AEROSOLS, FLAMMABLE (DIMETHYL ETHER) 2.1, LTD QTY

Proper shipping name (ICAO) AEROSOLS, FLAMMABLE (DIMETHYL ETHER) 2.1, LTD QTY

Proper shipping name (DOT) AEROSOLS, FLAMMABLE (DIMETHYL ETHER) 2.1, LTD QTY

Transport hazard class(es)

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

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
Present.

SARA 313 Emission Reporting
Present.

SARA (311/312) Hazard Categories
Present.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins
Ths 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.

Minnesota "Right To Know" List
Present.

New Jersey "Right To Know" List
Present.

Tensorgrip P322 Pressure Sensitive Adhesive Aerosol Can

Pennsylvania "Right To Know" List
Present.

Inventories

Canada - DSL/NDSL
DSL

US - TSCA
Present.

16. Other information

Revision date	8/13/2020
Revision	15
Supersedes date	8/13/2020
SDS No.	23468
Hazard statements in full	H220 Extremely flammable gas. H222 Extremely flammable aerosol. H224 Extremely flammable liquid and vapor. H225 Highly flammable liquid and vapor. H280 Contains gas under pressure; may explode if heated. 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. H320 Causes eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.
ACA HMIS Health rating.	Moderate hazard. (2)
ACA HMIS Flammability rating.	Extremely flammable. (4)
ACA HMIS Physical hazard rating.	Normally stable. (0)
ACA HMIS Personal protection rating.	B

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.