

S101 CITRUS-BASED SPECIALTY ADHESIVE CLEANER

DATA SHEET
TensorGrip



As part of our Cleaners range, S101 is suitable for use on most surfaces.

PRODUCT DESCRIPTION

TensorGrip S101 is a bio-safe citrus solvent/cleaner, degreaser and adhesive remover designed to safely and powerfully remove adhesives and other tough substances. Available in small canisters for purging adhesive spray equipment.

ADVANTAGES

- Exceptional cleaning/degreasing power
- Non-corrosive
- Pleasant citrus scent
- Compatible with most plastics
- Biodegradable
- Cleans hoses, spray guns and other adhesive equipment
- Decal residue removal – safe for powder-coated surfaces
- Safer to use than most cleaners/adhesive removers

DIRECTIONS FOR USE

- **TensorGrip S101** can be sprayed on and wiped off. Wash off any remaining residue with water.
- This Specialty Citrus Cleaner can be safely used on most surfaces, including painted surfaces, glass, porcelain, concrete, and many plastics and vinyls.
- To clean adhesive application hoses and guns, attach the hose and gun to a canister of TensorGrip S101 and flush until clear (about 45 seconds).
- An 8lb canister will work for approximately 8 purges; 22L size works for approximately 28 purges.
- The product will not be damaged by freezing. Warm up to room temperature for use.

QUIN GLOBAL US

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TensorGrip

CHEMICAL TECHNICAL DATA

TYPICAL PROPERTIES

- Total Solids 0%
- VOC Content 747 g/L
- Color Clear
- System Flammability Combustible liquid; Non-Flammable propellant (22L canisters)
Flammable propellant (Aerosols & 7L Canisters)
- Solvent System D-Limonene, Mineral Spirits
- Dry time 1-3 mins dependent on temp & humidity
- Open time N/A
- Shelf Life 18 months from date of manufacture

PACKAGING

- 650ml Aerosol Cans
- 7L Disposable Canister
- 22L Disposable 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

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 S101 AA Citrus-Based Specialty Adhesive Cleaner

1. Identification

Product identifier

Product name Tensorgrip S101 AA Citrus-Based Specialty Adhesive Cleaner

Product number USA

Recommended use of the chemical and restrictions on use

Application Aerosol Cleaning Solvent

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 (Mon - Fri) 09:00 - 16:00

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Aerosol 2 - H223, H229 Press. Gas, Compressed - H280

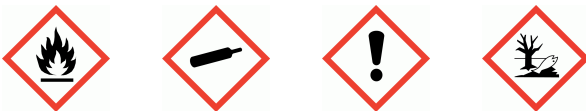
Health hazards Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Irrit. 2 - H315 Skin Sens. 1 - H317

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

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

Warning

Hazard statements

H223 Flammable aerosol.
H229 Pressurized container: may burst if heated.
H280 Contains gas under pressure; may explode if heated.
H302+H312 Harmful if swallowed or in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.

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Precautionary statements	<p>P261 Avoid breathing vapor/spray.</p> <p>P272 Contaminated work clothing must not be allowed out of the workplace.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P302+P352 If on skin: Wash with plenty of water.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P410+P403 Protect from sunlight. Store in a well-ventilated place.</p>
Supplemental label information	AT(o) 15.0% of the mixture consists of ingredient(s) of unknown acute oral toxicity.
Contains	d-Limonene, Propane, Isobutane, Odorless Mineral Spirits

Other hazards

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

3. Composition/information on ingredients

Substances

Mixtures

d-Limonene 30-60% CAS number: 94266-47-4
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Irrit. 2 - H315 Skin Sens. 1 - H317
Isobutane 10-30% CAS number: 75-28-5
Classification Flam. Gas 1 - H220 Press. Gas, Compressed - H280
Propane 10-30% CAS number: 74-98-6
Classification Flam. Gas 1 - H220 Press. Gas, Liquefied - H280 Acute Tox. 4 - H332 Simple Asphyxiant - USH03

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Odorless Mineral Spirits	10-30%
CAS number: 64742-47-8	
Classification	
Acute Tox. 4 - H302	
Acute Tox. 4 - H312	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
STOT SE 3 - H336	
Asp. Tox. 1 - H304	

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. 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. Wash skin thoroughly with soap and water. Remove contaminated clothing. 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.

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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 Vapors are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Containers can burst violently or explode when heated, due to excessive pressure build-up.

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. No smoking, sparks, flames or other sources of ignition near spillage. Avoid the spillage or runoff entering drains, sewers or watercourses. Eliminate all sources of ignition. Wash thoroughly after dealing with a spillage. Absorb in vermiculite, dry sand or earth and place into containers. Provide adequate ventilation.

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 1.2.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

d-Limonene

Long-term exposure limit (8-hour TWA): WEEL:US.AIHA = Workplace Environmental Exposure Level Guides 30 ppm

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Isobutane

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

Odorless Mineral Spirits

Long-term exposure limit (8-hour TWA): ACGIH 200 mg/m³

Long-term exposure limit (8-hour TWA): OSHA 500 ppm 2000 mg/m³

ACGIH = American Conference of Governmental Industrial Hygienists.

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! Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke. Wash promptly with soap and water if skin becomes contaminated. Wash hands at the end of each work shift and before eating, smoking and using the toilet.

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	Strong. Solvent.
Initial boiling point and range	Not determined.
Flash point	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Vapour density	Not determined.

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Relative density	~ 0.8295
Solubility(ies)	Negligibly soluble in water
Volatile organic compound	This product contains a maximum VOC content of 742 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. Reducing agents. Avoid contact with the following materials: Oxidizing agents.
Materials to avoid	Strong oxidizing agents. Strong acids.
Hazardous decomposition products	Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO ₂). Aldehydes. Hydrocarbons. Ketones

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 607.14285714

Acute toxicity - dermal

ATE dermal (mg/kg) 1,571.42857143

Acute toxicity - inhalation

ATE inhalation (gases ppm) 30,000.0

ATE inhalation (vapours mg/l) 37.93103448

Toxicological information on ingredients.

d-Limonene

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,000.0

Species Rabbit

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,000.0

Species Rabbit

ATE dermal (mg/kg) 1,100.0

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

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Inhalation	Irritation of nose, throat and airway.
Skin Contact	Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.

Isobutane

Toxicological effects	No information available.
<u>Carcinogenicity</u>	
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 (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

Odorless Mineral Spirits

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,000.0

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

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

Species Rabbit

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ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 5.0

Species Rat

ATE inhalation (vapours mg/l) 11.0

Skin corrosion/irritation

Animal data Irritating.

Serious eye damage/irritation

Serious eye damage/irritation Slightly irritating.

Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

Specific target organ toxicity - single exposure

STOT - single exposure High concentrations may cause: Central nervous system depression. Continued inhalation may result in: Unconsciousness and/or death.

Specific target organ toxicity - repeated exposure

Target organs Kidneys

Route of entry Skin absorption Skin and/or eye contact Inhalation Ingestion

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. (DOT) Limited Quantity <1L, Aerosol

UN No. (ICAO) 1950

UN proper shipping name

Proper shipping name (DOT) Aerosols, Flammable (D-Limonene, Isobutane, Propane)

Proper shipping name (IMDG) CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.

Proper shipping name (ICAO) CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.

Transport hazard class(es)

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DOT hazard class 2.1

Transport labels



Packing group

Not applicable.

15. Regulatory information

Inventories

US - TSCA

Present.

Isobutane

Propane

d-Limonene

16. Other information

Revision date 6/24/2015

Revision 6

Supersedes date 6/23/2015

SDS No. 20688

Hazard statements in full

H223 Flammable aerosol.
 H229 Pressurized container: may burst if heated.
 H280 Contains gas under pressure; may explode if heated.
 H302 Harmful if swallowed.
 H312 Harmful in contact with skin.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H332 Harmful if inhaled.
 H336 May cause drowsiness or dizziness.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 USH03 May displace oxygen and cause rapid suffocation

ACA HMIS Health rating. Slight hazard. (1)

ACA HMIS Physical hazard rating. Normally stable. (0)

ACA HMIS Personal protection rating. B

ACA HMIS Flammability rating. Extremely flammable. (4)

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