



SAFETY DATA SHEET

Tensorgrip TC41 Infusion RTM Molding Spray Adhesive

1. Identification

Product identifier

Product name Tensorgrip TC41 Infusion RTM Molding Spray Adhesive

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 Flam. Aerosol 1 - H222 Press. Gas, Compressed - H280

Health hazards Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 STOT SE 3 - H336 Asp. Tox. 1 - H304

Environmental hazards Aquatic Acute 2 - H401 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

Pictogram



Signal word

Danger

Tensorgrip TC41 Infusion RTM Molding Spray Adhesive

| | |
|---------------------------------------|--|
| Hazard statements | <p>H302+H332 Harmful if swallowed or if inhaled.</p> <p>H222 Extremely flammable aerosol.</p> <p>H280 Contains gas under pressure; may explode if heated.</p> <p>H315 Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p> <p>H304 May be fatal if swallowed and enters airways.</p> |
| Precautionary statements | <p>P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.</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>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>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C /122°F.</p> |
| Supplemental label information | AT(o) 15.0% of the mixture consists of ingredient(s) of unknown acute oral toxicity. |
| Contains | Methyl Acetate, Heptane, Propane, Isobutane |

Other hazards

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

3. Composition/information on ingredients

Mixtures

| | |
|---|---------------|
| Methyl Acetate CAS number: 79-20-9 | 30-60% |
| Classification Flam. Liq. 2 - H225 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Eye Irrit. 2A - H319 STOT SE 3 - H336 | |
| Heptane CAS number: 142-82-5 M factor (Acute) = 1 M factor (Chronic) = 1 | 10-25% |
| Classification Flam. Liq. 2 - H225 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 | |

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| | |
|---|---------------|
| Propane CAS number: 74-98-6 | 10-25% |
| Classification Flam. Gas 1 - H220 Press. Gas, Liquefied - H280 Acute Tox. 4 - H332 Simple Asphyxiant - USH03 | |
| Isobutane CAS number: 75-28-5 | 10-25% |
| Classification Flam. Gas 1 - H220 Press. Gas, Compressed - H280 | |

The full text for all hazard statements is displayed in Section 16.

hydrocarbons

hydro carbons

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. |

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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

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.

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

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)

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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

Methyl Acetate

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm

Short-term exposure limit (15-minute): ACGIH 250 ppm

Long-term exposure limit (8-hour TWA): OSHA 200 ppm 610 mg/m³

Heptane

Long-term exposure limit (8-hour TWA): ACGIH 400 ppm

Short-term exposure limit (15-minute): ACGIH 500 ppm

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

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

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! 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.

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| | |
|--|--|
| Color | Red. |
| Odor | Strong. |
| Flash point | -104°C/-156°F |
| Upper/lower flammability or explosive limits | Lower flammable/explosive limit: 1.8 g/100 g Upper flammable/explosive limit: 18 g/100 g |
| Vapor density | > 1 |
| Relative density | .852 |
| Solubility(ies) | Negligibly soluble in water |
| Volatile organic compound | This product contains a maximum VOC content of 340 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. |
| Hazardous decomposition products | Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO ₂). Hydrocarbons. |

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 844.58

Acute toxicity - dermal

ATE dermal (mg/kg) 2,185.97

Acute toxicity - inhalation

ATE inhalation (gases ppm) 30,000.0

ATE inhalation (vapours mg/l) 16.84

Toxicological information on ingredients.

Methyl Acetate

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 Rat

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

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Acute toxicity inhalation
(LC₅₀ vapours mg/l)

49.28

Species

Rat

ATE inhalation (vapours
mg/l)

11.0

Heptane

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

ATE dermal (mg/kg)

1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation
(LC₅₀ vapours mg/l)

29.3

Species

Rat

ATE inhalation (vapours
mg/l)

11.0

Carcinogenicity

Carcinogenicity

Does not contain any substances known to be carcinogenic.

Specific target organ toxicity - single exposure

STOT - single exposure

May cause drowsiness or dizziness

General information

Absorbtion of large quantities may cause: Narcosis. Death.

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

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ATE inhalation (vapours
mg/l) 11.0

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.

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 Cargo aircraft only. <75kg

UN Number

UN No. (ICAO) 3501

UN No. (DOT) 3501

UN proper shipping name

Proper shipping name (TDG) Chemical Under Pressure, Flammable, N.O.S. (Methyl Acetate, Heptane)

Proper shipping name (DOT) Chemical Under Pressure, Flammable, N.O.S. (Methyl Acetate, Heptane)

Transport hazard class(es)

DOT hazard class 2.1

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).

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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.

SARA 313 Emission Reporting

Present.

SARA (311/312) Hazard Categories

Present.

US State Regulations**California Proposition 65 Carcinogens and Reproductive Toxins**

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

Massachusetts "Right To Know" List

Present.

New Jersey "Right To Know" List

Present.

Pennsylvania "Right To Know" List

Present.

Inventories**Canada - DSL/NDSL**

Present.

US - TSCA

Present.

16. Other information

Revision date 2/8/2019

Revision 1

SDS No. 22661

Tensorgrip TC41 Infusion RTM Molding Spray Adhesive

| | |
|----------------------------------|--|
| Hazard statements in full | H220 Extremely flammable gas. |
| | H222 Extremely flammable aerosol. |
| | 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. |
| | H332 Harmful if inhaled. |
| | H336 May cause drowsiness or dizziness. |
| | H400 Very toxic to aquatic life. |
| | H401 Toxic to aquatic life. |
| | H410 Very toxic to aquatic life with long lasting effects. |
| | H411 Toxic to aquatic life with long lasting effects. |

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

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.