EPO-CA REFRIGERATED TRAILER REPAIR ADHESIVE















As part of our TRANSPORT range, EP0-CA is a web spray adhesive designed for use in repairing reefer trailers using the substrates listed.

PRODUCT DESCRIPTION

TensorGrip® EPO-CA is a reefer liner repair system eliminates blocking and bracing and reduces cure time to 5 minutes so you can increase your profits and keep your customers coming back! Now you can successfully repair a full refrigerated trailer wall in 45 minutes rather than the standard 24 hours. Formulated with CO-REZ Technology, which is an exceptional formulation incorporating a highly engineered resin and gas matrix. The result: Greater Coverage from Less Canister Weight.

ADVANTAGES

- · Compliant with California VOC laws
- Fast dry with excellent initial bond
- Good heat resistance (up to 200°F)
- Aggressive: high-strength, permanent bond

DIRECTIONS FOR USE

- TensorGrip EP0-CA is designed as a portable, selfcontained spray system for refrigerated trailer repair.
- Canister Directions:
- Be sure foam and liner are clean and free of grease, dirt, dust, etc.
- After attaching the gun and hose to the canister, holding spray nozzle 6-10 inches from away, spray wall with an even coat covering entire surface.
- Edges of spray pattern should slightly overlap to ensure complete coverage.
- Insert fiberglass liner (e.g. Kemlite®) into aluminum scuff and pinch between lip and wall.
- With liner laying on floor, spray liner evenly, using the same method of spray as used on the wall.
- Wait 5-10 minutes until adhesive is tacky and doesn't transfer to fingertips.
- Using 3-10 people, roll liner up wall be sure liner is straight & flat against wall. Bond will be permanent, realignment is not possible.
- Roll with EP0 Roller beginning in the center and working outward to ensure strong, permanent bond.
- Ultimate strength is achieved in 24 hours.
- 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.

- 80% of final strength achieved immediately
- Full strength achieved in 24 hours
- Low VOC version of Tensorgrip EP0
- Fast coverage of large areas
- · Aerosol Directions:
- Be sure foam and liner are clean and free of grease, dirt, dust, etc.
- Hold aerosol can 4-6 inches away from foam wall, spray foam wall with two even coats of adhesive covering entire surface.
- Hold aerosol can 4-6 inches away from liner, spray liner with two even coats of adhesive covering the entire surface.
- Edges of spray pattern should slightly overlap to ensure complete coverage.
- Wait until adhesive is tacky and doesn't transfer to fingers, but not longer than 20 minutes.
- Position liner onto the foam wall. Be sure liner is aligned correctly. Bonds will be permanent, realignment is not possible.
- Apply sufficient pressure to the liner to ensure strong, permanent bond.
- Ultimate strength is achieved in 24 hours.







EPO-CA REFRIGERATED TRAILER REPAIR ADHESIVE

CHEMICAL TECHNICAL DATA

TYPICAL PROPERTIES

Total Solids

VOC Content

Color

System Flammability

Solvent System

Dry time

Open time

Shelf Life

PACKAGING

650ml

221

108L

216L

30-36%

45 g/L (Canister) and 35.9% by weight (Aerosol)

Red or Clear

Flammable adhesive; Non-Flammable propellant (Canisters)

Flammable adhesive; Flammable propellant (Aerosols)

Methyl Acetate

2-4 mins dependent on temp & humidity

Long

18 months from date of manufacture

Aerosol Can

Disposable Canister Returnable Canister Returnable Canister

STORAGE

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.

HANDLING & 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

APPLICATION TOOLS

- Hoses: M130-12 (12'), M130-18 (18') or M130-25 (25' (only for 108L canister))
- Spray Guns: M120 Adj. Spray Gun or M125 18" Wand Adj. Spray Gun
- Spray Tips: 11001SS 4"-17" Med/High Build Adj Spray Pattern or 11002B 5" 22" High Build Adj Spray Pattern
- Roller: EP0R 7" Wide Roller with 4' Handle

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 EP0-CA-AA Low-VOC Reefer Repair Adhesive

1. Identification

Product identifier

Product name Tensorgrip EP0-CA-AA Low-VOC Reefer Repair 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

Health hazards Acute Tox. 4 - H302 Acute Tox. 4 - H332 Eye Irrit. 2A - H319 Repr. 2 - H361f STOT SE 3 -

H336 STOT RE 2 - H373

Environmental hazards Aquatic Chronic 3 - H412

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

Hazard statements H302+H332 Harmful if swallowed or if inhaled.

H222 Extremely flammable aerosol. H319 Causes serious eye irritation. H361f Suspected of damaging fertility. H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Tensorgrip EP0-CA-AA Low-VOC Reefer Repair Adhesive

Precautionary statements P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

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.

P308+P313 If exposed or concerned: Get medical advice/ attention.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C /122°F.

Supplemental label

information

AT(o) 15.0% of the mixture consists of ingredient(s) of unknown acute oral toxicity. Contains 6.671 % of components with unknown hazards to the aquatic environment.

Contains Methyl Acetate, Propane, Isobutane, n-Hexane

Other hazards

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

3. Composition/information on ingredients

Mixtures

Methyl Acetate	30-60%
CAS number: 79-20-9	
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	

Propane	10-25%
	.0 =0 /0
	Propane

CAS number: 74-98-6

Classification

Flam. Gas 1 - H220

Press. Gas, Liquefied - H280

Acute Tox. 4 - H332

Simple Asphyxiant - USH03

Isobutane 10-25%

CAS number: 75-28-5

Classification

Flam. Gas 1 - H220

Press. Gas, Compressed - H280

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n-Hexane 5-10%

CAS number: 110-54-3 M factor (Acute) = 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
Repr. 2 - H361f
STOT SE 3 - H336
STOT RE 2 - H373
Aquatic Chronic 2 - H411

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.

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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

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

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

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

n-Hexane

Long-term exposure limit (8-hour TWA): ACGIH 50 ppm

Sk

Ceiling Value: OSHA_TRANS 500 ppm 1800 mg/m³

Long-term exposure limit (8-hour TWA): OSHA 50 ppm 180 mg/m³ ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

Sk = Danger of cutaneous absorption.

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

Tensorgrip EP0-CA-AA Low-VOC Reefer Repair Adhesive

Appearance Aerosol.

Color Clear. Red.

Odor Organic solvents.

Initial boiling point and range -42.1°C (-43.8°F)

Flash point -104°C/-155°F Closed cup.

Upper/lower flammability or

explosive limits

Upper flammable/explosive limit: 9.5 g/100 g Lower flammable/explosive limit: 2.1 g/100 g

Relative density ~ .928

Solubility(ies) Negligibly soluble in water

Volatile organic compound This product contains a maximum VOC content of 35.9% by weight .

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 (CO2).

Aldehydes. Halogenated hydrocarbons.

5,000.0

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 924.11

Acute toxicity - dermal

ATE dermal (mg/kg) 2,391.82

Acute toxicity - inhalation

ATE inhalation (gases ppm) 30,000.0
ATE inhalation (vapours mg/l) 18.04

Toxicological information on ingredients.

Methyl Acetate

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.0

mg/kg)

Species Rat

ATE dermal (mg/kg) 1,100.0

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Acute toxicity - inhalation

Acute toxicity inhalation

(LC₅₀ vapours mg/l)

49.28

11.0

Species Rat

ATE inhalation (vapours

mg/l)

Propane

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ gases ppmV)

1,442.0

Species

Acute toxicity inhalation

(LC₅₀ vapours mg/l)

Rat

1,442.0

Rat

ATE inhalation (gases

4,500.0

11.0

ppm)

Species

ATE inhalation (vapours

mg/l)

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.

n-Hexane

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

25.000.0

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.0

mg/kg)

Rabbit

Species

7/12

Tensorgrip EP0-CA-AA Low-VOC Reefer Repair Adhesive

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC₅₀ vapours mg/l)

Rat

1716

ATE inhalation (vapours

11.0

mg/l)

Species

Reproductive toxicity

Reproductive toxicity -

Suspected of damaging fertility.

fertility

Specific target organ toxicity - single exposure

STOT - single exposure May cause drowsiness or dizziness

Target organs Central nervous system

Specific target organ toxicity - repeated exposure

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Target organs Central nervous system

Aspiration hazard

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

pneumonitis.

General information After absorption. Tiredness. Narcosis. After long term exposure to the chemical:

CNS disorders, paralysis symptoms. (It generally applies to aliphatic hydrocarbons with 6 - 18 carbon atoms that they cause pneumonia, in some cases also pulmonary edema, upon direct inhalation, i.e. in conditions that can occur only in

pulmonary edema, upon direct inhalation, i.e. in conditions that can occur only in very special circumstances (nebulizations, spraying, inhalation of aerosols and similar.)) Absorbtion of large quantities may cause: Narcosis. Possible risk of

adverse reproductive effects.

Inhalation May cause drowsiness or dizziness. Vapors irritate the respiratory system.

Ingestion Irritating. May cause nausea, stomach pain and vomiting.

Skin Contact The product is irritating to eyes and skin.

Eye contact Risk of corneal clouding.

Route of exposure Inhalation Skin and/or eye contact

Target Organs Eyes Skin Respiratory system, lungs Central nervous system Peripheral nervous

system

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. (ICAO) 1950

Limited Quantity <1L, Aerosol UN No. (DOT)

UN proper shipping name

Proper shipping name (DOT) Aerosols, Flammable

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

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

The following ingredients are listed or exempt:

n-Hexane

Final CERCLA RQ: 5000(2270) pounds (Kilograms)

SARA 313 Emission Reporting

The following ingredients are listed or exempt:

n-Hexane

100%

SARA (311/312) Hazard Categories

Hazard

Methyl Acetate

Fire

Acute

Chronic

Health hazard

Propane

Yes.

Isobutane

Fire

Pressure

Hazard

n-Hexane

Acute Chronic Health hazard

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

The following ingredients are listed or exempt:

Methyl Acetate

Present

Propane

Present

Isobutane

Present

n-Hexane

Present

New Jersey "Right To Know" List

The following ingredients are listed or exempt:

Methyl Acetate

Present.

Propane

Present.

Isobutane

Present.

n-Hexane

Present.

Pennsylvania "Right To Know" List

The following ingredients are listed or exempt:

Methyl Acetate

Present.

Propane

Present.

Isobutane

Present.

n-Hexane

Present.

Inventories

Canada - DSL/NDSL

The following ingredients are listed or exempt:

Methyl Acetate

Present.

Tensorgrip EP0-CA-AA Low-VOC Reefer Repair Adhesive

Propane

DSL

Present.

n-Hexane

DSL

US - TSCA

Present.

Methyl Acetate

Present.

Propane

Present.

n-Hexane

Present.

16. Other information

Revision date 12/14/2018

Revision 11

Supersedes date 9/24/2018

SDS No. 20865

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.

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. H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. USH03 May displace oxygen and cause rapid suffocation

ACA HMIS Health rating. Slight hazard. (1)

ACA HMIS Flammability

rating.

Extremely flammable. (4)

ACA HMIS Physical hazard

rating.

Normally stable. (0)

ACA HMIS Personal

protection rating.

В

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.