NBO HIGH TEMP SPRAY CONTACT ADHESIVE

DATA SHEET Tensor



As part of our MARINE range, M80 is a web spray adhesive designed for use on cabinets, flooring and walls using the substrates listed above.

PRODUCT DESCRIPTION

TensorGrip M80 is a high performance spray contact adhesive formulated for many bonding applications in marine outfitting where retained tackiness is required.

ADVANTAGES

- Excellent high coverage
- 80% of final strength achieved immediately
- Full strength achieved in 24 hours
- Fast drying with long open time
- Excellent green strength

DIRECTIONS FOR USE

- TensorGrip[®] M80 is designed as a portable, selfcontained spray system for field or shop applications.
- Apply adhesive to one or 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 over 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 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.

- Over 220°F (105°C) temperature resistant
- No ODS (Ozone Depleting Substances)
- Qualifies for LEED®-NC & CI EQ Credit 4.4: laminating adhesives shall contain no urea formaldehyde resins

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.

QUIN GLOBAL US

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Tensorgrip

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DATA SHEET Tensor

CHEMICAL TECHNICAL DATA

TYPICAL PROPERTIES

- Total Solids
- VOC Content
- Color
- System Flammability
- Solvent System
- Dry time
- Open time
- Shelf Life

PACKAGING

- 650ml
- 22L
- 108L
- 216L

- 22-28%
- 0 g/L
- Clear
- Non-Flammable adhesive; Flammable propellant
- Methylene Chloride
- 2-4 mins dependent on temp & humidity
- Long
- 18 months from date of manufacture
- Aerosol Cans Disposable Canister Returnable Canister 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

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.

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SAFETY DATA SHEET Tensorgrip M80AA High Temp Contact Adhesive

1. Identification	
Product identifier	
Product name	Tensorgrip M80AA High Temp Contact Adhesive
Product number	USA
Recommended use of the che	emical and restrictions on use
Application	Aerosol Spray Adhesive
Details of the supplier of the s	afety 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	
Physical hazards	Aerosol 2 - H223, H229 Press. Gas, Compressed - H280
Health hazards	Acute Tox. 3 - H301 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	
Pictogram	

Signal word

Danger



Hazard statements	 H223 Flammable aerosol. H280 Contains gas under pressure; may explode if heated. H301 Toxic if swallowed. 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.
Precautionary statements	 P302+P352 If on skin: Wash with plenty of water. 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. P312 Call a poison center/doctor if you feel unwell. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention.
Supplemental label information	AT(o) 15.0% of the mixture consists of ingredient(s) of unknown acute oral toxicity.
Contains	Methylene Chloride, Isobutane, Propane

Other hazards

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

3. Composition/information on ingredients

Substances

Mixtures

Г

Methylene Chloride	30-60%
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	
Isobutane	10-30%
CAS number: 75-28-5	
Classification	
Flam. Gas 1 - H220	
Press. Gas, Compressed - H280	

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Propane	10-30%
CAS number: 74-98-6	
Classification Flam. Gas 1 - H220 Press. Gas, Liquefied - H280 Acute Tox. 4 - H332 Simple Asphyxiant - USH03	
The Full Text for all Hazard Sta	atements are Displayed in Section 16.
4. First-aid measures	
Description of first aid measure	25
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.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Special hazards arising from the	ne 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 measure	\$
Personal precautions, protectiv	ve 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 conta	ainment 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, in	cluding 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	
Methylene Chloride Long-term exposure limit (8-ho	
A3	
Short-term exposure limit (15- Long-term exposure limit (8-ho	
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

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. 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 Red.
Odor		Organic solvents.
Initial boiling p	point and range	Not determined.
Flash point		Not determined.
Upper/lower fla explosive limit	•	Not determined.
Vapour densit	y	Not determined.
Relative densi	ity	~ 1.22
Solubility(ies)		Negligibly soluble in v
Volatile organi	ic compound	This product contains

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. Aluminum. Magnesium. Amines. Strong alkalis.		
Hazardous decomposition products	Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2). Aldehydes. Hydrocarbons.		
11. Toxicological information			
Information on toxicological eff Acute toxicity - oral		2057	
ATE oral (mg/kg)	160.0753	2957	
Acute toxicity - dermal ATE dermal (mg/kg)	2,071.563	308851	
Acute toxicity - inhalation ATE inhalation (gases ppm)	30,000.0		
ATE inhalation (vapours mg/l)	73.33333	333	
Toxicological information on in	gredients.		
		Methylene Chloride	
Acute toxicity - or	al		
Acute toxicity ora mg/kg)	I (LD50	2,000.0	
Species		Rat	
ATE oral (mg/kg)		100.0	
Acute toxicity - de	ermal		
Acute toxicity der mg/kg)	mal (LD₅₀	2,000.0	
Species		Rat	
ATE dermal (mg/	kg)	1,100.0	
Acute toxicity - in			
Acute toxicity inh (LC₅₀ vapours mg		52.0	
Species		Rat	
ATE inhalation (v mg/l)	apours	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 toxici	ty - single exposure	
STOT - single exposure	May cause respiratory irritation. May cause drowsiness or dizziness	
Specific target organ toxici	ty - repeated exposure	
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	
	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.	
Propane		
Acute toxicity - inhalation		
Acute toxicity inhalation (LC₅₀ gases ppmV)	1,442.0	

Acute toxicity inhalation (LC₅ 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
al Information	

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 (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)	
DOT hazard class	2.1
Transport labels	
Packing group	
Not applicable.	
15. Regulatory information	
Inventories	
US - TSCA	
Present.	
Methylene Chloride	
16. Other information	
Revision date	3/9/2015
Revision	1
Supersedes date	8/11/2014
SDS No.	20702

Hazard statements in full	 H223 Flammable aerosol. 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. H332 Harmful if inhaled. 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.
ACA HMIS Health rating.	USH03 May displace oxygen and cause rapid suffocation Slight hazard. (1)
AGA HIVIO Health fating.	Sight hazard. (1)
ACA HMIS Flammability rating.	Ignites easily. (3)
ACA HMIS Physical hazard rating.	Normally stable. (0)
ACA HMIS Personal protection rating.	В

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