

Description

The 8701 *Threadlocker, Low Strength, Removable* has an anaerobic formulation designed to secure and seal fasteners. It prevents loosening caused by vibrations, shock, expansion and contraction.

Applications & Usages

The 8701 is used to secure and seal hydraulic line fittings, housing screws, machinery keys, and many types of nuts and bolts.

Benefits and Features

- **Meets MIL S-46163, Type II, Grade M**
- **Low toxicity**
- **One drop prevents loosening and ensures a secure hold**
- **Prevent corrosion, seal threads, improve torque control, and reduce galling**
- **Reduces friction allowing controlled torque during assembly**

Usage Parameters

<i>Properties</i>	<i>Value</i>
Fixture Time ^{a)}	10 to 30 min
Full Cure @22 °C [72 °F]	8 h
Bolt Range	up to ½" [up to 12 mm]
Shelf Life	3 y

a) Time at which the fixture strength of bonded substrate is 0.1 N/mm².

Temperature Ranges

<i>Properties</i>	<i>Value</i>
Constant Service Temperature	-54 to 176 °C [-65 to 350 °F]
Storage Temperature Limits	8 to 28 °C [46 to 82 °F]

Principal Components

Name	CAS Number
polyglycol dimethacrylate	25852-47-5
polyglycol oleate	9004-96-0
saccharin	81-07-2
1,2-propylene glycol	57-55-6
cumene hydroperoxide	80-15-9
titanium dioxide	13463-67-7

Properties of Cured 8701

<i>Physical Properties</i>	<i>Value</i>
Resin Color	Solid polyacrylate Purple
<i>Mechanical Property</i>	<i>Value</i>
Shear Strength Torque	600 lb/in [4.1 MPa] 8.5/5.6 N·m [75/50 lbf·in] ^{a)}

a) Breakaway/prevaling torque

Properties of Uncured 8701

<i>Physical Properties</i>	<i>Value</i>
Corrosive, MIL S-46163-A, Type II, Grade M	No
Viscosity	1 200 cP [1 140 mm ² /s]
Specific Gravity	1.05 g/mL
Flash Point	93 °C [200 °F]
Boiling Point	≥149 °C [≥300 °F]
Odor	Mild
VOC (Volatile Organic Compound)	146 g/L

Storage

Store between 8 to 28 °C [46 to 82 °F] in dry area. Store in well-ventilated area. Keep container tightly closed.

Health, Safety, and Environmental Awareness

Please see the 8701 **Safety Data Sheet** (SDS) for greater details on transportation, storage, handling and other security guidelines.

Environmental Impact: Avoid release to the environment.

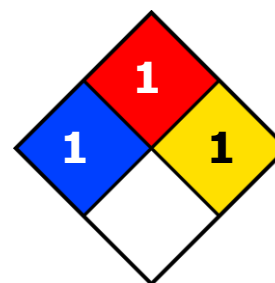
Health and Safety: The solvents in 8701 can cause respiratory track irritation, serious eye irritation, skin irritation, and an allergic skin reaction.

Do not breathe vapors. Wear safety glasses or goggles and disposable gloves to avoid exposures.

HMIS® RATING

HEALTH:	* 1
FLAMMABILITY:	1
PHYSICAL HAZARD:	1
PERSONAL PROTECTION:	

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

Application Instructions

Follow the procedure below for best results.

To apply the threadlocker

1. Shake well before use.
2. Ensure the surface is clean of oil, dust, water, solvents, and other contaminants and let the surface dry fully.
3. Remove cap and cut nozzle tip.
4. Apply to thread and wipe off excess.
5. Fixture time is 10 to 30 minutes. Allow full cure in 8 hours.

ATTENTION! Not recommended for use on plastics. Compatibility check should be performed prior application.

Packaging and Supporting Products

<i>Cat. No.</i>	<i>Packaging</i>	<i>Net Volume</i>		<i>Net Weight</i>		<i>Packaging Weight</i>	
8701-10ML	Bottle	10 mL	0.33 fl oz	10.5 g	0.37 oz	0.04 kg	0.09 lb



ISO 9001 Registered Quality System.
Burlington, Ontario, Canada QMI File # 004008

Threadlocker

Low Strength, Removable

8701 Technical Data Sheet

8701-Liquid

Technical Support

Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at www.mgchemicals.com.

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Warranty

M.G. Chemicals Ltd. warrants this product for 12 months from the date of purchase by the end user. *M.G. Chemicals Ltd.* makes no claims as to shelf life of this product for the warranty. The liability of *M.G. Chemicals Ltd.* whether based on its warranty, contracts, or otherwise shall in no case include incidental or consequential damage.

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