

# Technical data sheet



Product: 7649

Manufacturer: HENKEL KGAA

Product group: KLEBSTOFF

Article group: AKTIVATOR

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LOCTITE® SF 7649™

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# LOCTITE<sup>®</sup> SF 7649<sup>™</sup>

Known as LOCTITE<sup>®</sup> 7649<sup>™</sup>  
June 2014

## PRODUCT DESCRIPTION

LOCTITE<sup>®</sup> SF 7649<sup>™</sup> provides the following product characteristics:

<b>Technology</b>	Activator for LOCTITE <sup>®</sup> anaerobic adhesives and sealants
<b>Chemical Type</b>	Copper salt and Aliphatic amine
<b>Solvent</b>	Acetone
<b>Appearance</b>	Transparent, green liquid <sup>LMS</sup>
<b>Viscosity</b>	Very low
<b>Cure</b>	Not applicable
<b>Application</b>	Cure acceleration of LOCTITE <sup>®</sup> anaerobic products

LOCTITE<sup>®</sup> SF 7649<sup>™</sup> is used where increased cure speed of LOCTITE<sup>®</sup> anaerobic products is required. It is especially recommended for applications with passive metals or inert surfaces and with large bond gaps. LOCTITE<sup>®</sup> SF 7649<sup>™</sup> is particularly recommended when prevailing temperature is low (<15 °C).

## NSF International

**Certified to ANSI/NSF Standard 61** for use in commercial and residential potable water systems not exceeding 82° C. **Note:** This is a regional approval. Please contact your local Technical Service Center for more information and clarification.

## NSF International

**Registered to NSF Category P1** for use as a sealant where there is no possibility of food contact in and around food processing areas. **Note:** This is a regional approval. Please contact your local Technical Service Center for more information and clarification.

## TYPICAL PROPERTIES

Specific Gravity @ 25 °C	0.79
Viscosity @ 20 °C, mPa·s (cP)	2
Flash Point - See SDS	
Drying Time @ 20 °C, seconds	30 to 70
On Part Life, days	≤30

## TYPICAL PERFORMANCE

Fixture time and cure speed achieved as a result of using LOCTITE<sup>®</sup> SF 7649<sup>™</sup> depend on the adhesive used and the substrate bonded.

Fixture Time, ISO 4587, seconds:

Steel (degreased) using LOCTITE <sup>®</sup> 326 <sup>™</sup> , , single side activation	≤30
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(Fixture time is defined as the time to develop a shear strength of 0.1 N/mm<sup>2</sup> )

## Handling precautions

Activator must be handled in a manner applicable to highly flammable materials and in compliance with relevant local regulations.

The solvent can affect certain plastics or coatings. It is recommended to check all surfaces for compatibility before use.

## GENERAL INFORMATION

**This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected with a sealant for chlorine or other strong oxidizing materials.**

**For safe handling information on this product, consult the Safety Data Sheet (SDS).**

**Under no circumstances should activator and adhesive be mixed directly as liquids.**

**Use only in a well ventilated area**

Where aqueous washing systems are used to clean the surfaces before bonding, it is important to check for compatibility of the washing solution with the adhesive. In some cases these aqueous washes can affect the cure and performance of the adhesive.

## Directions for use:

1. Spray or brush on the activator on both mating surfaces to be bonded. For small gaps, treatment of only one surface may be adequate. Contaminated surfaces may need repeated treatment or special degreasing prior to activation to remove any dissolvable contamination. Porous surfaces may need two treatments of activator.
2. Allow the solvent time to evaporate under good ventilation until the surfaces are completely dry.
3. After activation, parts should be bonded within 1 month. Contamination of the surface before bonding should be prevented.
4. Apply the Loctite Anaerobic product to one or both surfaces and assemble parts immediately.
5. Where possible, move surfaces in relation to each other for a few seconds on assembly to properly distribute the adhesive and for maximum activation..
6. Secure the assembly and await fixturing before any further handling..

**Loctite Material Specification<sup>LMS</sup>**

LMS dated September 01, 1995. Test reports for each batch are available for the indicated properties. LMS test reports include selected QC test parameters considered appropriate to specifications for customer use. Additionally, comprehensive controls are in place to assure product quality and consistency. Special customer specification requirements may be coordinated through Henkel Quality.

**Storage**

This activator is classified as **HIGHLY FLAMMABLE** and must be stored in an appropriate manner in compliance with relevant regulations. Do not store near oxidising agents or combustible materials. Store product in the unopened container in a dry location. Storage information may also be indicated on the product container labelling.

**Optimal Storage: 8 °C to 21 °C. Storage below 8 °C or greater than 28 °C can adversely affect product properties.**

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

**Conversions**

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$   
 $\text{kV/mm} \times 25.4 = \text{V/mil}$   
 $\text{mm} / 25.4 = \text{inches}$   
 $\mu\text{m} / 25.4 = \text{mil}$   
 $\text{N} \times 0.225 = \text{lb}$   
 $\text{N/mm} \times 5.71 = \text{lb/in}$   
 $\text{N/mm}^2 \times 145 = \text{psi}$   
 $\text{MPa} \times 145 = \text{psi}$   
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$   
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$   
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$   
 $\text{mPa}\cdot\text{s} = \text{cP}$

**Note:**

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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**Reference 1.4**

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