



## Safety Data Sheet according to GB/T 16483-2008

LOCTITE® 565™ PST® PIPE SEALANT h PTFE THREAD SEALANT

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### 1. Identification of the substance/preparation and of the company/undertaking

**Product name:** LOCTITE® 565™ PST® PIPE SEALANT h PTFE THREAD SEALANT  
**Intended use:** Anaerobic Sealant

**Company name:**  
Henkel (China) Investment Co., Ltd.  
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China

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**Revision date:** 06.09.2011

**Emergency information:** Emergency telephone: +86 532 8388 9090 (24h).

### 2. Hazards identification

**Classification of the substance or mixture according to GB 13690-2009 (General rule for classification and hazard communication of chemicals):**

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Route of Exposure</u>	<u>Target Organ(s)</u>
Serious eye damage/eye irritation	Category 2A	Eye contact	
Specific target organ toxicity - single exposure	Category 3		Lungs

**Label elements according to GB 15258-2009 (General rules for preparation of precautionary label for chemicals):**

**Pictogram:**



**Signal word:** Warning

**Hazard statement:** H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

<b>Precautionary statement (Prevention):</b>	P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary statement (Response):</b>	P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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 or doctor/physician if you feel unwell. P337+P313 If eye irritation persists: Get medical advice/attention.
<b>Precautionary statement (Storage):</b>	P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.

**3. Composition / information on ingredients**

**General description:** Anaerobic Sealant

**Declaration of the ingredients according to GB 13690-2009:**

Hazard component CAS-No.	Concentration range	GHS Classification
Cumene hydroperoxide 80-15-9	1- 10 %	Acute toxicity 4; Dermal H312 Specific target organ toxicity - repeated exposure 2 H373 Acute toxicity 3; Inhalation H331 Acute toxicity 4; Oral H302 Organic peroxides E H242 Chronic hazards to the aquatic environment 2 H411 Skin corrosion 1B H314
Cumene 98-82-8	0,1- 1 %	Flammable liquids 3 H226 Aspiration hazard 1 H304 Specific target organ toxicity - single exposure 3 H335 Chronic hazards to the aquatic environment 2 H411

Only hazardous ingredients for which a classification according to GB 13690-2009 is already available are displayed in this table. For full text of the Hazard statements see section 16 "Other information".

**4. First aid measures**

<b>Skin contact:</b>	Remove contaminated clothing and footwear. Wash clothing before reuse. Wash with soap and water. If symptoms develop and persist, get medical attention.
<b>Eye contact:</b>	Get medical attention. Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time.
<b>Inhalation:</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.

**Ingestion:** Keep individual calm.  
Do not induce vomiting.  
Get medical attention.

### 5. Fire fighting measures

**Hazardous combustion products:** Oxides of carbon, oxides of nitrogen, irritating organic vapors.

**Extinguishing media:** Foam, extinguishing powder, carbon dioxide.

**Fire-fighting method:** In case of fire, keep containers cool with water spray.

**Notice and measures for firing fighting:** Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

### 6. Accidental release measures

**Emergency measures:** Ensure adequate ventilation.  
Do not let product enter drains.

**Clean-up methods:** For small spills wipe up with paper towel and place in container for disposal.  
For large spills absorb onto inert absorbent material and place in sealed container for disposal.

**Precautions measures to prevent secondary hazards:** No information.

### 7. Handling and storage

**Notice for handling:** Use only in well-ventilated areas.  
Gloves and safety glasses should be worn  
Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.

**Notice for storage:** Store in original containers at 8-21°C (46.4-69.8°F) and do not return residual materials to containers as contamination may reduce the shelf life of the bulk product.

**Temp. limits storage/ transportation:** Keep in a cool, well ventilated area.

### 8. Exposure controls / personal protection

Hazardous components	GBZ 2.1-2007	ACGIH	NIOSH	OSHA
Cumene hydroperoxide	none	none		none
Cumene	none	50 ppm TWA		none

**Engineering controls:** No specific ventilation requirements noted, but forced ventilation may still be required if concentrations exceed occupational exposure limits.

**Respiratory protection:** Use only in well-ventilated areas.

**Eye protection:** Wear protective glasses.

**Body protection:** Wear suitable protective clothing.

**Hand protection:**

In circumstances where there is a potential for prolonged or repeated skin contact, the use of polyvinyl chloride or nitrile rubber gauntlets or equivalent solvent resistant gloves is recommended.

Chemical-resistant protective gloves (EN 374).

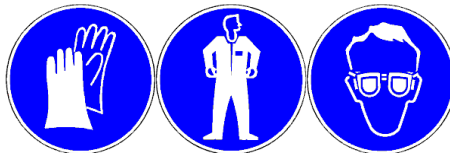
Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR;  $\geq 0.4$  mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR;  $\geq 0.4$  mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

**Pictograms for recommended PPE:****9. Physical and chemical properties**

Physical state:	paste	Appearance:	white
pH:	not applicable	Melting point:	Not available.
Boiling point:	> 149 °C (> 149 149 °C)	Density:	1,1 g/cm <sup>3</sup>
Flash point:	> 93,3 °C (> 93,3 93,3 °C)	Ignition temperature:	Not available.
Solubility:	Slight (Solvent: Water)	Viscosity:	55.000 - 120.000 mPa.s

**10. Stability and reactivity**

<b>Stability:</b>	Stable
<b>Conditions to avoid:</b>	Stable under normal conditions of storage and use.
<b>Incompatible products:</b>	Strong oxidizing agents.
<b>Decomposition products:</b>	Oxides of carbon. Toxic fluorine compounds. Oxides of nitrogen. Oxides of sulfur. Irritating organic vapours.
<b>Hazardous polymerization:</b>	Will not occur.

**11. Toxicological information****General toxicological information:**

No laboratory animal data available.

**Oral toxicity:**

This material is considered to have low toxicity if swallowed.

**Other remarks:**

Not available.

**Acute toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Cumene hydroperoxide 80-15-9	LD50	550 mg/kg	oral	4 h	rat	
	LC50	220 ppm	inhalation		rat	
	LD50	500 mg/kg	dermal		rat	

**Skin corrosion/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Cumene hydroperoxide 80-15-9	corrosive		rabbit	

**Germ cell mutagenicity:**

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Cumene hydroperoxide 80-15-9	positive	bacterial reverse mutation assay (e.g Ames test)	without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Cumene hydroperoxide 80-15-9	negative	dermal		mouse	

**12. Ecological information****General ecological information:**

Do not empty into drains / surface water / ground water.

**Ecotoxicity:**

No data available.

**Persistence and degradability:****Ultimate biodegradation:**

Not available.

**Bioaccumulative potential:**

No data available.

**Other adverse effects:**

Not available.

**Toxicity:**

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Cumene hydroperoxide 80-15-9	LC50	3,9 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Cumene hydroperoxide 80-15-9	EC50	18 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Cumene hydroperoxide 80-15-9	ErC50	3,1 mg/l	Algae	72 h	Pseudokirchnerella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Cumene 98-82-8	LC50	4,8 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Cumene 98-82-8	EC50	4 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Cumene 98-82-8	EC50	2,6 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)

**Persistence and degradability:**

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Cumene hydroperoxide 80-15-9			18 %	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
Cumene 98-82-8		aerobic	86 %	

**Bioaccumulative potential / Mobility in soil:**

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Cumene hydroperoxide 80-15-9		9,1				OECD Guideline 305 (Bioconcentration: Flow- through Fish Test)
Cumene hydroperoxide 80-15-9	2,16					
Cumene 98-82-8		35,5		Carassius auratus		OECD Guideline 305 (Bioconcentration: Flow- through Fish Test)
Cumene 98-82-8	3,55				23 °C	OECD Guideline 107 (Partition Coefficient (n- octanol / water), Shake Flask Method)

### 13. Disposal considerations

**Product disposal:**

If the waste is classified as hazardous waste according to GB 5085.7-2007 (Identification standards for hazardous wastes, General Specifications). Dispose of as hazardous waste in compliance with "Regulation on the Safety Management of Hazardous Chemicals", "Law of the People's Republic of China on the prevention and control of Environmental Pollution by Solid Waste", "National Catalogue of Hazardous Waste".

**Disposal of uncleaned packages:** After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated. Disposal must be made according to official regulations.

#### 14. Transport information

**General information:**

Not hazardous according to RID, ADR, ADNR, IMDG, IATA-DGR.

**Notice For Transportation:**

Transport according to local and national regulations. Ensure containers will not leak, collapse, or being damaged when transported. DO NOT transport with incompatible materials. Transportation vehicle should be equipped with right fire-fighting equipment in case of emergency. Avoid solarization, drenched and high temperature when transported.

#### 15. Regulations - classification and identification

The following laws and regulations lay down provisions in terms of chemicals safety use, storage, transportation, loading/unloading, classification as well as symbol.

“Law of the People's Republic of China on Work Safety” (Adopted by the 28th meeting of 9th NPC standing committee on 29th June 2002).

“Law of the People's Republic of China on the Prevention and Treatment of Occupational Diseases” (Adopted by the 24th meeting of 9th NPC standing committee on 27th October 2001).

“Law of the People's Republic of China on environmental protection” (Adopted by 11st meeting of 7th NPC standing committee on 26th December 1989).

“Regulation on the Safety Management of Hazardous Chemicals” (Adopted by 144th State Council executive meeting on 16th February 2011).

“Regulations on License to Work Safety” (Adopted by 34th State Council executive meeting on 7th January 2004).

#### 16. Other information

**Issue date:** 03.11.2014

**Issue department:** Lisa Zhang, Senior Product Safety & Regulatory Affairs Specialist.

**Disclaimer:**

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties. The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

**Others:**

The full text of all abbreviations indicated by codes in this safety data sheet section 3 are as follows:

H226 Flammable liquid and vapor.

H242 Heating may cause a fire.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

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

H411 Toxic to aquatic life with long lasting effects.