



Safety Data Sheet according to GB/T 16483-2008

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LOCTITE 573 FLANGE SEALANT known as 573 FLANGE
SEALANT 50ml E/C/J.

SDS No. : 153496

V001.4

Revision: 18.04.2016

printing date: 19.02.2019

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

Product name: LOCTITE 573 FLANGE SEALANT known as 573 FLANGE SEALANT 50ml E/C/J.

Intended use: Anaerobic Adhesive

Company name:

Henkel (China) Investment Co. Ltd.
No.928 Zhangheng Rd.
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China

Phone: +86-21-2891 8000

Fax-no.: +86-21-2891 5137

Revision date: 18.04.2016

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):

No classification required.

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

No classification required.

3. Composition / information on ingredients

General description: Mixture

Declaration of the ingredients according to GB 13690-2009:

Hazard component CAS-No.	Content	GHS Classification
Titanium dioxide 13463-67-7	0.1- < 1 %	

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

Skin contact: Rinse with running water and soap.
Seek medical advice.

Eye contact: Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

Ingestion: Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.
Seek medical advice.

5. Fire fighting measures

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

Extinguishing media: Carbon dioxide, foam, powder

Notice and measures for firing fighting: None
Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

6. Accidental release measures

Emergency measures: Avoid skin and eye contact.
Do not let product enter drains.
Ensure adequate ventilation.
See advice in section 8

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.
Dispose of contaminated material as waste according to Section 13.

7. Handling and storage

Notice for handling: Use only in well-ventilated areas.
Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.
Avoid skin and eye contact.

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.

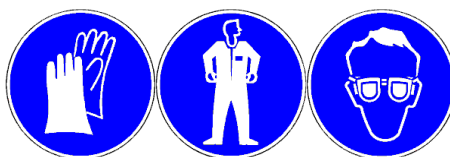
8. Exposure controls / personal protection

Hazardous components	GBZ 2.1-2007	ACGIH	NIOSH	OSHA
Titanium dioxide	8 mg/m ³ PC-TWA	10 mg/m ³ TWA		none

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

- Respiratory protection:** Use only in well-ventilated areas.
An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area
Filter type: A
- Eye protection:** Wear protective glasses.
- Body protection:** Wear suitable protective clothing.
- Hand protection:** 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; >= 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; >= 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.
- Other protection:** The selection of PPE shall at least compliant with "Law of the People's Republic of China on Prevention and Control of Occupational Diseases" and "Code of practice for selection of personal protective equipments" (GB/T 11651-2008).

Pictograms for recommended PPE:



9. Physical and chemical properties

Physical state:	paste	Appearance:	green paste
pH:	3.00 - 6.00	Melting point:	Not available.
Boiling point:	> 150.0 °C (> 302 °F) > 300 °F (> 148.9 °C)	Density:	1.0800 g/cm ³
Flash point:	> 93.3 °C (> 199.94 °F)	Ignition temperature:	Not available.
Solubility in water	Slightly soluble	Viscosity:	>= 43,000 mPa.s

10. Stability and reactivity

Stability:	Stable under recommended storage conditions.
Conditions to avoid:	Stable
Incompatible products:	Reaction with strong acids. Reacts with strong oxidants.

Decomposition products: Oxides of carbon.
Oxides of nitrogen.
Oxides of sulfur.
Irritating organic vapours.

Hazardous polymerization: Will not occur.

11. Toxicological information

Inhalative toxicity:

Acute toxicity estimate (ATE) : > 40 mg/l
Exposure time: 4 h
Test atmosphere: Vapor.
Method: Calculation method

Other remarks:

Not available.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Titanium dioxide 13463-67-7	LD50 LC50 LD50	> 5,000 mg/kg > 6.82 mg/l ≥ 10,000 mg/kg	oral inhalation dermal	4 h	rat rat hamster	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Titanium dioxide 13463-67-7	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Titanium dioxide 13463-67-7	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Titanium dioxide 13463-67-7	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Titanium dioxide 13463-67-7	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay	with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Titanium dioxide 13463-67-7	negative	oral: gavage		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Titanium dioxide 13463-67-7	NOAEL=24,000 mg/kg	oral: gavage	29 ddaily	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

12. Ecological information

General ecological information:

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

Cured Loctite products are typical polymers and do not pose any immediate environmental hazards.

Other adverse effects:

Not available.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Titanium dioxide 13463-67-7	LC50	> 1,000 mg/l	Fish	48 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Titanium dioxide 13463-67-7	EC50	> 1,000 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Titanium dioxide 13463-67-7	EC0	> 10,000 mg/l	Bacteria	24 h	Pseudomonas fluorescens	DIN 38412, part 8 (Pseudomonas Zellvermehrungshe mm-Test)

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.

14. Transport information

- General information:**
Not hazardous according to RID, ADR, ADN, 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. Regulatory information

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, revised by 10th meeting of 12nd NPC standing committee on 31st Aug 2014).

“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, revised by 24th meeting of 11st NPC standing committee on 31st Dec 2011).

“Law of the People's Republic of China on environmental protection” (Adopted by 11st meeting of 7th NPC standing committee on 26th December 1989, revised by 8th meeting of 12nd NPC standing committee on 24th Apr 2014).

“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 54th State Council executive meeting on 29th July 2014).

China Inventory of Existing Chemicals: All components are listed or are exempt from Inventory of Existing Chemical Substances in China.

16. Other information

Issue date: 19.02.2019
Issue department: Dayong Tian, Product Safety & Regulatory Affairs Specialist for Greater China

Disclaimer:

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