



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

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LOCTITE 243 known as Loctite 243 (Old)

SDS No. : 153494

V001.10

Revision: 14.01.2016

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

**Product name:** LOCTITE 243 known as Loctite 243 (Old)

**Intended use:** Adhesive

**Company name:**

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

Phone: +86-21-2891 8000

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**Revision date:** 14.01.2016

**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):**

**Hazard Class**  
Skin sensitizer

**Hazard Category**  
Category 1

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

**Hazard pictogram:**



**Signal word:** Warning

**Hazard statement:** H317 May cause an allergic skin reaction.

**Prevention:**  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves.

**Response:**  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.

**Disposal:**  
P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**3. Composition / information on ingredients**

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

Hazard component CAS-No.	Content	GHS Classification
Ethene, homopolymer 9002-88-4	1- < 10 %	
Maleic acid 110-16-7	0.1- < 1 %	Acute toxicity 4; Oral H302 Acute toxicity 4; Dermal H312 Skin corrosion/irritation 2 H315 Serious eye damage/eye irritation 2A H319 Skin sensitizer 1 H317 Specific target organ toxicity - single exposure 3 H335
Acetic acid, 2-phenylhydrazide 114-83-0	0.1- < 1 %	Acute toxicity 3; Oral H301 Skin corrosion/irritation 2 H315 Serious eye damage/eye irritation 2A H319 Skin sensitizer 1 H317 Carcinogenicity 2 H351 Specific target organ toxicity - single exposure 3; Inhalation H335
1,4-Naphthalenedione 130-15-4	< 0.1 %	Acute toxicity 3; Oral H301 Acute toxicity 1; Inhalation H330 Skin corrosion/irritation 2; Dermal H315 Serious eye damage/eye irritation 2A H319 Skin sensitizer 1; Dermal H317 Specific target organ toxicity - single exposure 3; Inhalation H335 Acute hazards to the aquatic environment 1 H400 Chronic hazards to the aquatic environment 1 H410

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

**Fire-fighting method:** In case of fire use foam or powder extinguisher.

**Notice and measures for firing fighting:** In case of fire, keep containers cool with water spray. 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.

**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.

### 7. Handling and storage

**Notice for handling:** Use only in well-ventilated areas. Avoid skin and eye contact.

**Notice for storage:** Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation. 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. Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

### 8. Exposure controls / personal protection

Hazardous components	GBZ 2.1-2007	ACGIH	NIOSH	OSHA
Ethene, homopolymer	5 mg/m <sup>3</sup> TWA	10 mg/m <sup>3</sup> TWA 3 mg/m <sup>3</sup> 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.

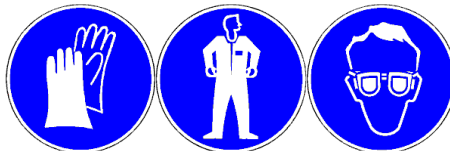
**Body protection:** Wear suitable protective clothing.

**Hand protection:** Suitable protective gloves.

**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).  
Good industrial hygiene practices should be observed.

**Pictograms for recommended PPE:**



**9. Physical and chemical properties**

Physical state:	liquid	Appearance:	blue Liquid
<b>pH:</b>	6.5 - 8.5	Melting point:	Not applicable
Boiling point:	> 149 °C (> 300.2 °F)	Density:	1.08 g/cm <sup>3</sup>
Flash point:	> 93 °C (> 199.4 °F)	Ignition temperature:	Not available.
Solubility in water	Partially soluble	Viscosity:	7,000 - 11,000 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 alkalis. Reducing agents. Oxygen scavengers. Other polymerization initiators. Strong oxidizing agents.
<b>Decomposition products:</b>	Oxides of sulfur. Oxides of nitrogen. Irritating organic vapours. Oxides of carbon.
<b>Hazardous polymerization:</b>	Will not occur.

**11. Toxicological information**

**Oral toxicity:**

Acute toxicity estimate (ATE) : > 5,000 mg/kg  
Method: Calculation method

**Inhalative toxicity:**

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

**Acute toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Ethene, homopolymer 9002-88-4	LD50	> 4,500 mg/kg	oral		rat	
Maleic acid 110-16-7	LD50 LD50	708 mg/kg 1,560 mg/kg	oral dermal		rat rabbit	

**Germ cell mutagenicity:**

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Ethene, homopolymer 9002-88-4	negative	bacterial reverse mutation assay (e.g Ames test)			

**12. Ecological information****Other adverse effects:**

Do not dispose the product in the municipal sewage.

**Toxicity:**

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Ethene, homopolymer 9002-88-4	LC50	> 100 mg/l	Fish	96 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Ethene, homopolymer 9002-88-4	EC0	> 1,000 mg/l	Bacteria			
Maleic acid 110-16-7	LC50	> 245 mg/l	Fish	48 h	Leuciscus idus	DIN 38412-15
Maleic acid 110-16-7	EC50	42.81 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1,4-Naphthalenedione 130-15-4	EC50	0.011 mg/l	Algae	72 h	Dunaliella bioculata	OECD Guideline 201 (Alga, Growth Inhibition Test)

**Persistence and degradability:**

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Ethene, homopolymer 9002-88-4		aerobic	1 %	ISO 10708 (BODIS-Test)
Maleic acid 110-16-7	readily biodegradable	aerobic	97.08 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
1,4-Naphthalenedione 130-15-4		no data	0 - 60 %	OECD 301 A - F

**Bioaccumulative potential / Mobility in soil:**

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method

Maleic acid 110-16-7	-1.3				20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Acetic acid, 2-phenylhydrazide 114-83-0	0.74					
1,4-Naphthalenedione 130-15-4	1.71					

### 13. Disposal considerations

**Product disposal:** Dispose of in accordance with local and national regulations. Contribution of this product to waste is very insignificant in comparison to article in which it is used  
Not list in National Hazardous Waste Catalogue, dispose of as normal chemical 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, 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

<b>Issue date:</b>	19.03.2016
<b>Issue department:</b>	Dayong Tian, Product Safety & Regulatory Affairs Specialist for Greater China
<b>Disclaimer:</b>	<p>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 and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel 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 Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.</p>
<b>Others:</b>	<p><b>The full text of all abbreviations indicated by codes in this safety data sheet section 3 are as follows:</b></p> <p>H301 Toxic if swallowed. H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H330 Fatal if inhaled. H335 May cause respiratory irritation. H351 Suspected of causing cancer. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.</p>