



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

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LOCTITE EA 3463 known as METAL MAGIC STEEL 113.4G

SDS No. : 153766  
V001.7

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

**Product name:** LOCTITE EA 3463 known as METAL MAGIC STEEL 113.4G  
**Trade name:** 3463  
**Intended use:** Epoxy resin

**Company name:**  
Henkel (China) Investment Co., Ltd.  
No.928 Zhangheng Rd.  
201203 Pudong, Shanghai, P.R.China

China

Phone: +86-21-2891 8000  
Fax-no.: +86-21-2891 5137

**Revision date:** 31.07.2012

**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              |                        |
| Skin corrosion/irritation                  | Category 2             | Skin contact             |                        |
| Skin sensitizer                            | Category 1B            | Skin contact             |                        |
| Carcinogenicity                            | Category 2             |                          |                        |
| Chronic hazards to the aquatic environment | Category 3             |                          |                        |

**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.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H412 Harmful to aquatic life with long lasting effects.

|  |   |
|--|---|
| <b>Precautionary statement (Prevention):</b> | P201 Obtain special instructions before use.<br>P202 Do not handle until all safety precautions have been read and understood.<br>P264 Wash thoroughly after handling.<br>P280 Wear protective gloves/protective clothing/eye protection/face protection.<br>P261 Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P272 Contaminated work clothing should not be allowed out of the workplace.<br>P273 Avoid release to the environment.<br>P281 Use personal protective equipment as required.   |
| <b>Precautionary statement (Response):</b>   | P302+P352 IF ON SKIN: Wash with plenty of soap and water.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing.<br>P308+P313 IF exposed or concerned: Get medical advice/attention.<br>P332+P313 If skin irritation occurs: Get medical advice/attention.<br>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.<br>P337+P313 If eye irritation persists: Get medical advice/attention.<br>P362 Take off contaminated clothing and wash before re-use.<br>P363 Wash contaminated clothing before reuse. |
| <b>Precautionary statement (Storage):</b>    | P405 Store locked up.   |
| <b>Precautionary statement (Disposal):</b>   | 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:** Epoxy resin

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

| Hazard component CAS-No.   | Concentration range | GHS Classification   |
|--|---------------------|--|
| Iron<br>7439-89-6  | 10- 30 %            | Flammable liquids 2<br>H228<br>Flammable solids 2<br>H228  |
| Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>25068-38-6 | 10- 30 %            | Chronic hazards to the aquatic environment 2<br>H411<br>Serious eye irritation 2<br>H319<br>Skin irritation 2<br>H315<br>Skin sensitizer 1<br>H317 |
| Glass, oxide, chemicals<br>65997-17-3  | 10- 30 %            | Carcinogenicity 2<br>H351  |
| Triethoxy(vinyl)silane<br>78-08-0  | 1- 10 %             | Flammable liquids 3<br>H226<br>Serious eye irritation 2<br>H319<br>Specific target organ toxicity - single exposure 3;<br>Inhalation<br>H335       |

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.

**Extinguishing media:** Carbon dioxide, foam, powder

**Fire-fighting method:** No particular measures required.

**Notice and measures for firing fighting:** Do not expose to direct heat.  
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.  
See advice in chapter 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.  
Wash spillage site thoroughly with soap and water or detergent solution.

**7. Handling and storage**

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

**Notice for storage:** For optimum shelf life store in original containers under refrigerated conditions at 2 - 8°C (35.6 - 46.4 °F)

**8. Exposure controls / personal protection**

| Hazardous components   | GBZ 2.1-2007 | ACGIH                       | NIOSH | OSHA |
|--|--------------|-----------------------------|-------|------|
| Iron   | none         | none                        |       | none |
| Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) | none         | none                        |       | none |
| Glass, oxide, chemicals  | none         | 10 mg/m3 TWA<br>3 mg/m3 TWA |       | none |
| Triethoxy(vinyl)silane   | none         | none                        |       | none |

**Engineering controls:** Ensure adequate ventilation.

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

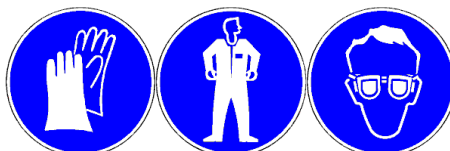
**Eye protection:** Wear protective glasses.

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

**Hand protection:** The use of chemical resistant gloves such as Nitrile are recommended. Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. 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). Good industrial hygiene practices should be observed.

**Pictograms for recommended PPE:**



## 9. Physical and chemical properties

|                 |                               |                       |                          |
|-----------------|-------------------------------|-----------------------|--------------------------|
| Physical state: | paste                         | Appearance:           | grey                     |
| pH:             | Not applicable                | Melting point:        | Not applicable           |
| Boiling point:  | Not available.                | Density:              | 2,1038 g/cm <sup>3</sup> |
| Flash point:    | 284,00 °C (543.2 °F)          | Ignition temperature: | Not available.           |
| Solubility:     | Not miscible (Solvent: Water) | Viscosity:            | Not available.           |

## 10. Stability and reactivity

|                                  |   |
|----------------------------------|---|
| <b>Stability:</b>                | Stable under recommended storage conditions.  |
| <b>Conditions to avoid:</b>      | Stable under normal conditions of storage and use.<br>Protect from direct sunlight. |
| <b>Incompatible products:</b>    | Reaction with strong acids.<br>Reacts with strong oxidants.                         |
| <b>Decomposition products:</b>   | None known  |
| <b>Hazardous polymerization:</b> | Will not occur.   |

## 11. Toxicological information

**General toxicological information:**  
No laboratory animal data available.

**Oral toxicity:**  
May cause irritation to the digestive tract.

**Other remarks:**  
Not available.

**Germ cell mutagenicity:**

| Hazardous components<br>CAS-No.   | Result   | Type of study /<br>Route of<br>administration          | Metabolic<br>activation /<br>Exposure time | Species | Method |
|---|----------|--|--|---------|--------|
| Reaction product:<br>bisphenol-A-<br>(epichlorhydrin); epoxy<br>resin (number average<br>molecular weight <= 700)<br>25068-38-6 | positive | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         |        |

## 12. Ecological information

**General ecological information:**

Do not empty into drains / surface water / ground water.  
Harmful to aquatic organisms.  
May cause long-term adverse effects in the aquatic environment.

**Ecotoxicity:**

Harmful to aquatic organisms.  
May cause long-term adverse effects in the aquatic environment.

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

Not available.

**Bioaccumulative potential:**

No data available.

**Other adverse effects:**

Not available.

**Toxicity:**

| Hazardous components<br>CAS-No.       | Value<br>type | Value        | Acute<br>Toxicity<br>Study | Exposure<br>time | Species        | Method   |
|---------------------------------------|---------------|--------------|----------------------------|------------------|----------------|--|
| Iron<br>7439-89-6                     | LC50          | > 1.000 mg/l | Fish                       | 48 h             | Leuciscus idus | OECD Guideline<br>203 (Fish, Acute<br>Toxicity Test)                   |
| Glass, oxide, chemicals<br>65997-17-3 | LC50          | > 1.000 mg/l | Fish                       |                  |                | OECD Guideline<br>203 (Fish, Acute<br>Toxicity Test)                   |
| Glass, oxide, chemicals<br>65997-17-3 | EC50          | > 1.000 mg/l | Daphnia                    |                  | Daphnia magna  | OECD Guideline<br>202 (Daphnia sp.<br>Acute<br>Immobilisation<br>Test) |
| Glass, oxide, chemicals<br>65997-17-3 | EC50          | > 1.000 mg/l | Algae                      |                  |                | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                |
| Triethoxy(vinyl)silane<br>78-08-0     | LC50          | > 100 mg/l   | Fish                       | 96 h             |                | OECD Guideline<br>203 (Fish, Acute<br>Toxicity Test)                   |
| Triethoxy(vinyl)silane<br>78-08-0     | EC50          | > 100 mg/l   | Daphnia                    | 48 h             | Daphnia sp.    | OECD Guideline<br>202 (Daphnia sp.<br>Acute<br>Immobilisation<br>Test) |
| Triethoxy(vinyl)silane<br>78-08-0     | EC50          | > 100 mg/l   | Algae                      | 72 h             |                | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                |

**Bioaccumulative potential / Mobility in soil:**

| Hazardous components<br>CAS-No.   | LogKow | Bioconcentration<br>factor (BCF) | Exposure<br>time | Species | Temperature | Method |
|-----------------------------------|--------|----------------------------------|------------------|---------|-------------|--------|
| Triethoxy(vinyl)silane<br>78-08-0 | 1,16   |                                  |                  |         |             |        |

## 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, 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).

**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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**Others:**

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

H226 Flammable liquid and vapour.  
H228 Flammable solid.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer.  
H411 Toxic to aquatic life with long lasting effects.