



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

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HHD8540 PART A BULK

MSDS-No. : 509551

V001.4

Revision: 10.06.2015

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

**Product name:** HHD8540 PART A BULK

**Intended use:** Acrylic Adhesive

**Company name:**

Henkel (China) Investment Co., Ltd.

No.928 Zhangheng Rd.

201203 Pudong, Shanghai, P.R.China

Germany

Phone: +86-21-2891 8000

**Revision date:** 10.06.2015

**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**

Flammable liquids

Skin corrosion/irritation

Skin sensitizer

Specific target organ toxicity -  
single exposure

**Hazard Category**

Category 3

Category 1A

Category 1

Category 3

**Target organ**

respiratory tract irritation

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

**Hazard pictogram:**



**Signal word:**

Warning

<b>Hazard statement:</b>	H226 Flammable liquid and vapor. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. H315 Causes skin irritation.
<b>Prevention:</b>	P210 Keep away from open flames/hot surfaces. - No smoking. P280 Wear face protection and protective gloves/protective clothing
<b>Response:</b>	P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P362+P364 Take off contaminated clothing and wash it before reuse. P370+P378 In case of fire: Use water for extinction.

### 3. Composition / information on ingredients

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

Hazard component CAS-No.	Content	GHS Classification
Methyl methacrylate 80-62-6	30- 60 %	Flammable liquids 2 H225 Skin corrosion/irritation 2 H315 Skin sensitizer 1 H317 Specific target organ toxicity - single exposure 3 H335
Methacrylic acid 79-41-4	1- 10 %	Acute toxicity 4; Oral H302 Acute toxicity 4; Inhalation H332 Acute toxicity 3; Dermal H311 Skin corrosion/irritation 1A H314
2,2'-[(4-methylphenyl)imino]bisethanol 3077-12-1	1- 10 %	Acute toxicity 4; Oral H302 Serious eye damage/eye irritation 1 H318
Methacrylate ester Proprietary	1- 10 %	Skin corrosion/irritation 1B H314

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>	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Wash clothing before reuse. Thoroughly clean shoes before reuse.
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<b>Eye contact:</b>	Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. Get medical attention.
<b>Inhalation:</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
<b>Ingestion:</b>	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

## 5. Fire fighting measures

<b>Hazardous combustion products:</b>	Oxides of carbon. Toxic fumes. Irritating vapors.
<b>Extinguishing media:</b>	Foam, dry chemical or carbon dioxide.
<b>Notice and measures for firing fighting:</b>	Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back. Wear self-contained breathing apparatus.

## 6. Accidental release measures

<b>Emergency measures:</b>	Do not allow product to enter sewer or waterways.
<b>Clean-up methods:</b>	Remove all sources of ignition. Ensure adequate ventilation. Wear appropriate personal protective equipment. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

## 7. Handling and storage

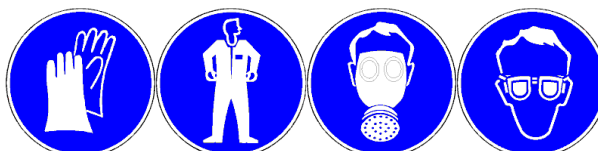
<b>Notice for handling:</b>	Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not taste or swallow. During use and until all vapors are gone: Keep area ventilated - do not smoke; extinguish all flames, pilot lights, and heaters; turn off stoves, electrical tools and appliances, and any other sources of ignition. Make sure containers are properly grounded before use or transfer of material. Keep container closed.
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## 8. Exposure controls / personal protection

Hazardous components	GBZ 2.1-2007	ACGIH	NIOSH	OSHA
Methyl methacrylate	100 mg/m3TWA	50 ppm TWA 100 ppm TWA		none
Methacrylic acid	70 mg/m3TWA	20 ppm TWA		none
2,2'-[(4-methylphenyl)imino]bisethanol	none	none		none
Methacrylate ester	none	none		none

<b>Engineering controls:</b>	Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.
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- Respiratory protection:** Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
- Eye protection:** Safety goggles or safety glasses with side shields.  
Full face protection should be used if the potential for splashing or spraying of product exists.
- Body protection:** Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.  
Nitrile gloves.

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

Physical state:	liquid	Appearance:	Amber high viscosity
pH:	Not available.	Melting point:	Not available.
Vapor density:	Not available.	Vapor pressure:	Not available.
Flash point:	24 °C (75.2 °F)	Ignition temperature:	Not available.
Solubility:	Not available.	Viscosity:	Not available.

**10. Stability and reactivity**

- Stability:** Stable under normal conditions of storage and use.
- Conditions to avoid:** Keep away from heat, ignition sources and incompatible materials.
- Incompatible products:** Oxidizing agents.  
Reducing agents.  
Acids.
- Decomposition products:** Oxides of carbon.  
Toxic fumes.

**11. Toxicological information**

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

**Acute toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Methacrylic acid 79-41-4	LD50 LC50 Acute toxicity estimate (ATE) LD50	1,320 mg/kg 4.7 mg/l 500 mg/kg 500 - 1,000 mg/kg	oral inhalation dermal dermal	4 h	rat rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) Expert judgement Dermal Toxicity Screening

**Skin corrosion/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Methacrylic acid 79-41-4	Category 1A (corrosive)	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Respiratory or skin sensitization:**

Hazardous components CAS-No.	Result	Test type	Species	Method
Methyl methacrylate 80-62-6	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Methacrylic acid 79-41-4	not sensitising	Buehler test	guinea pig	Buehler test

**Germ cell mutagenicity:**

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Methyl methacrylate 80-62-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		

**Repeated dose toxicity:**

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Methyl methacrylate 80-62-6	LOAEL=2000 ppm	inhalation	14 weeks 6 hrs/day, 5 days/wk	mouse	Dose Range Finding Study
Methyl methacrylate 80-62-6	NOAEL=1000 ppm	inhalation	14 weeks 6 hrs/day, 5 days/wk	mouse	Dose Range Finding Study

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

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

**Toxicity:**

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Methyl methacrylate 80-62-6	LC50	350 mg/l	Fish		Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Methyl methacrylate 80-62-6	EC50	69 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Methyl methacrylate 80-62-6	EC50	170 mg/l	Algae	4 d	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Methyl methacrylate 80-62-6	NOEC	100 mg/l	Algae	4 d	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Methacrylic acid 79-41-4	LC50	85 mg/l	Fish	96 h	Salmo gairdneri (new name: Oncorhynchus mykiss)	EPA OTS 797.1400 (Fish Acute Toxicity Test)
Methacrylic acid 79-41-4	EC50	> 130 mg/l	Daphnia	48 h	Daphnia magna	EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)
Methacrylic acid 79-41-4	NOEC	8.2 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Methacrylic acid 79-41-4	EC50	45 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,2'-[(4-methylphenyl)imino]bisethanol 3077-12-1	LC50	> 100 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)

**Persistence and degradability:**

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Methyl methacrylate 80-62-6	readily biodegradable	aerobic	95 %	EU Method C.4-B (Determination of the "Ready" Biodegradability/Modified OECD Screening Test)
Methacrylic acid 79-41-4	readily biodegradable	aerobic	86 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
2,2'-[(4-methylphenyl)imino]bisethanol 3077-12-1			> 48 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

**Bioaccumulative potential / Mobility in soil:**

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Methyl methacrylate 80-62-6	1.38					
Methacrylic acid 79-41-4	0.93				22 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

### 13. Disposal considerations

**Product disposal:** Dispose of in accordance with local and national regulations.

**Disposal of uncleaned packages:** Dispose of in accordance with local and national regulations.

### 14. Transport information

#### Road transport ADR:

Class:	3
Packing group:	III
Classification code:	F1
Hazard ident. number:	30
UN no.:	1133
Label:	3
Technical name:	ADHESIVES
Additional information:	Special provision 640E

#### Railroad transport RID:

Class:	3
Packing group:	III
Classification code:	F1
Hazard ident. number:	30
UN no.:	1133
Label:	3
Technical name:	ADHESIVES
Additional information:	Special provision 640E

#### Marine transport IMDG:

Class:	3
Packing group:	III
UN no.:	1133
Label:	3
EmS:	F-E ,S-D
Seawater pollutant:	-
Proper shipping name:	ADHESIVES

#### Air transport IATA:

Class:	3
Packing group:	III
Packaging instructions (passenger):	355
Packaging instructions (cargo):	366
UN no.:	1133
Label:	3
Proper shipping name:	Adhesives

**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 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:

29.06.2015

### Issue department:

He Fen, Product Safety & Regulatory Affairs Specialist for Greater China

### 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 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.

### Others:

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

H225 Highly flammable liquid and vapor.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.