



Safety Data Sheet according to GB/T 16483-2008

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HHD8540 PART B BULK

SDS No. : 509562

V001.1

Revision: 06.01.2015

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

Product name: HHD8540 PART B BULK

Company name:

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

Phone: +86-21-2891 8000

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

Revision date: 06.01.2015

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):

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Route of Exposure</u>	<u>Target organ</u>
Skin irritation	Category 2		
Serious eye irritation	Category 2		
Skin sensitizer	Category 1		
Acute hazards to the aquatic environment	Category 1		
Chronic hazards to the aquatic environment	Category 2		
Organic peroxides	Type E		

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

Pictogram:



Signal word:

Warning

Hazard statement:

H242 Heating may cause a fire.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statement
(Prevention):**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear eye protection/face protection.
P280 Wear protective gloves.
P210 Keep away from heat/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.

**Precautionary statement
(Response):**

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378 In case of fire: Use water spray for extinction.
P302+P352 IF ON SKIN: Wash with plenty of water.
P321 Specific treatment (see this label).
P362 Take off contaminated clothing.
P391 Collect spillage.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.

**Precautionary statement
(Disposal):**

P501 Dispose of contents/container according to SDS section 13.

3. Composition / information on ingredients

General description: Epoxy Adhesive

Declaration of the ingredients according to GB 13690-2009:

Hazard component CAS-No.	Concentration range	GHS Classification
Dibenzoyl peroxide 94-36-0	10- 30 %	Serious eye irritation 2 H319 Acute hazards to the aquatic environment 1 H400 Skin sensitizer 1 H317 Chronic hazards to the aquatic environment 2 H411 Organic peroxides B H241
Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	10- 30 %	Skin irritation 2 H315 Skin sensitizer 1 H317 Serious eye irritation 2 H319 Chronic hazards to the aquatic environment 2 H411
Oxydipropyl dibenzoate 27138-31-4	1- 10 %	Chronic hazards to the aquatic environment 3 H412

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:**

Immediately flush skin with plenty of water (using soap, if available).
Remove contaminated clothing and footwear.
If symptoms develop and persist, get medical attention.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.

Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. If symptoms develop and persist, get medical attention.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms develop and persist, get medical attention.
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

5. Fire fighting measures

Hazardous combustion products:	See section 10.
Extinguishing media:	Foam, extinguishing powder, carbon dioxide. Water spray jet
Fire-fighting method:	In case of fire, keep containers cool with water spray.
Notice and measures for firing fighting:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

6. Accidental release measures

Emergency measures:	Do not allow product to enter sewer or waterways.
Clean-up methods:	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). Scrape up spilled material and place in a closed container for disposal.

7. Handling and storage

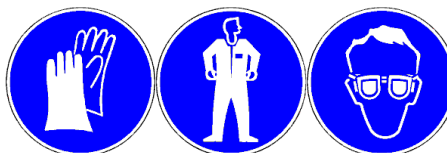
Notice for handling:	Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Use only with adequate ventilation. Keep container closed.
Notice for storage:	Store in a cool, well-ventilated place.

8. Exposure controls / personal protection

Hazardous components	GBZ 2.1-2007	ACGIH	NIOSH	OSHA
Dibenzoyl peroxide	5 mg/m ³ TWA	5 mg/m ³ TWA		none
Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	none	none		none
Oxydipropyl dibenzoate	none	none		none

Engineering controls:	Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
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Respiratory protection:	Suitable breathing mask when there is inadequate ventilation. Suitable respiratory protection: Filter type: A
Eye protection:	Goggles which can be tightly sealed. and/or protective shield
Body protection:	Wear protective equipment. Suitable protective clothing apron
Hand protection:	Use of Butyl or Nitrile Rubber gloves is 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).

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

Physical state:	solid	Appearance:	blue high viscosity
Flash point:	> 93 °C (> 199.4 °F)	Ignition temperature:	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. Protect from direct sunlight.
Incompatible products:	Strong oxidizing agents. Strong acids. Strong bases. Amines. Mercaptans. Ammonia. Alcohols. Acids.
Decomposition products:	Oxides of carbon. Phenolics. Aldehydes. Irritating vapors.

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

The present product is a chemical preparation within the meaning of the chemicals act. The following evaluation has been made on the basis of the toxicological data and content by weight of the individual ingredients.

Oral toxicity:

May cause irritation to the digestive tract.

Other remarks:
Not available.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Dibenzoyl peroxide 94-36-0	LD50	> 5.000 mg/kg	oral		rat	
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	LD50 LD50	> 2.000 mg/kg 23.000 mg/kg	oral dermal		rat rabbit	
Oxydipropyl dibenzoate 27138-31-4	LD50 LC50 LD50	3.914 mg/kg > 200 mg/l > 2.000 mg/kg	oral inhalation dermal	4 h	rat rat rat	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	slightly irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Oxydipropyl dibenzoate 27138-31-4	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
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Oxydipropyl dibenzoate 27138-31-4	slightly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Dibenzoyl peroxide 94-36-0	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Oxydipropyl dibenzoate 27138-31-4	not sensitising		guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	negative	bacterial reverse mutation assay (e.g Ames test)			OECD Guideline 472 (Genetic Toxicology: Escherichia coli, Reverse Mutation Assay)
Oxydipropyl dibenzoate 27138-31-4	negative negative negative	in vitro mammalian chromosome aberration test bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay	with and without with and without with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Oxydipropyl dibenzoate 27138-31-4	NOAEL=> 1.000 mg/kg	oral: feed	90 days daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

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

On the basis of raw materials and comparable substances contained in the product the following ecological evaluation is obtained:

Toxic to aquatic organisms

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

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

If used properly the product does not enter the drains.

In the cured state contribution of this product to Environmental Hazards is insignificant in comparison to articles in which it is used.

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
Dibenzoyl peroxide 94-36-0	LC50	0,06 mg/l	Fish	96 h	Daphnia magna	OECD Guideline 203 (Fish, Acute Toxicity Test)
Dibenzoyl peroxide 94-36-0	EC50	0,11 mg/l	Daphnia	48 h		OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Dibenzoyl peroxide 94-36-0	NOEC	0,02 mg/l	Algae	72 h	Pseudokirchnerella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
	EC50	0,07 mg/l	Algae	72 h	Pseudokirchnerella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	LC50	1,750000 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
	LC50	1,75 mg/l	Fish	96 h	Oncorhynchus mykiss (reported as Salmo gairdneri)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	NOEC	2,4 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition Test)
	EC50	9,4 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition Test)
Oxydipropyl dibenzoate 27138-31-4	LC50	3,7 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Oxydipropyl dibenzoate 27138-31-4	EC50	19,3 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Oxydipropyl dibenzoate 27138-31-4	NOEC	1 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
	EC50	4,9 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
Dibenzoyl peroxide 94-36-0	readily biodegradable	aerobic	> 60 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6		aerobic	5 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Oxydipropyl dibenzoate 27138-31-4	readily biodegradable	aerobic	87 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

13. Disposal considerations**Product disposal:**

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages: Disposal must be made according to official regulations.

14. Transport information

Road transport ADR:

Class:	5.2
Packing group:	
Classification code:	P1
Hazard ident. number:	
UN no.:	3108
Label:	5.2
Technical name:	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)

Railroad transport RID:

Class:	5.2
Packing group:	
Classification code:	P1
Hazard ident. number:	539
UN no.:	3108
Label:	5.2
Technical name:	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)

Marine transport IMDG:

Class:	5.2
Packing group:	
UN no.:	3108
Label:	5.2
EmS:	F-J ,S-R
Seawater pollutant:	Marine pollutant
Proper shipping name:	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)

Air transport IATA:

Class:	5.2
Packing group:	
Packaging instructions (passenger):	570
Packaging instructions (cargo):	570
UN no.:	3108
Label:	5.2 (HEAT)
Proper shipping name:	Organic peroxide type E, solid (Dibenzoyl peroxide)

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 11th NPC standing committee on 31st December 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).

"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:

H241 Heating may cause a fire or explosion.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.