



## Safety Data Sheet according to (EC) No 1907/2006

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Hardener 50% yellow 6g part B

sds no. : 205010  
V003.2

Revision: 10.03.2011  
printing date: 01.05.2012

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

**Product identifier:**

Hardener 50% yellow 6g part B

**Relevant identified uses of the substance or mixture and uses advised against:**

Intended use:

hardener component

**Details of the supplier of the safety data sheet:**

Henkel Limited  
2 Bishop Square Business Park  
AL109EY Herfordshire Hatfield

Great Britain

Phone: +44 1606 593933

Fax-no.: +44 1606 863762

ua-productsafety.uk@uk.henkel.com

**Emergency telephone number:**

24 Hours Emergency Tel: +44 (0)1442 278497

### 2. Hazards identification

**Classification of the substance or mixture:**

**Classification (DPD):**

O - Oxidizing

R7 May cause fire.

Xi - Irritant

R36 Irritating to eyes.

N - Dangerous for the  
environment

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Sensitizing

R43 May cause sensitisation by skin contact.

**Label elements (DPD):**

O - Oxidizing



N - Dangerous for the environment



Xi - Irritant

**Risk phrases:**

- R7 May cause fire.
- R36 Irritating to eyes.
- R43 May cause sensitisation by skin contact.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases:**

- S2 Keep out of the reach of children.
- S3/7 Keep container tightly closed in a cool place.
- S24 Avoid contact with skin.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S28 After contact with skin, wash immediately with plenty of water and soap.
- S37 Wear suitable gloves.
- S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

**Additional labeling:**

- For consumer use only: S2 Keep out of the reach of children
- S46 If swallowed, seek medical advice immediately and show this container or label.

**Contains:**

Dibenzoyl peroxide

**Other hazards:**

None if used properly.

**3. Composition/information on ingredients****General chemical description:**

Hardener

**Declaration of the ingredients according to CLP (EC) No 1272/2008:**

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Dibenzoyl peroxide 94-36-0	202-327-6	>= 40- <= 60 %	Organic peroxides B H241 Serious eye irritation 2 H319 Skin sensitizer 1 H317
Oxydipropyl dibenzoate 27138-31-4	248-258-5	>= 20- <= 30 %	

**Only dangerous ingredients for which a CLP classification is already available are displayed in this table.**  
**For full text of the H - statements and other abbreviations see section 16 "Other information".**  
**Substances without classification may have community workplace exposure limits available.**

**Declaration of ingredients according to DPD (EC) No 1999/45:**

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Dibenzoyl peroxide 94-36-0	202-327-6	>= 40 - <= 60 %	E - Explosive; R3 Xi - Irritant; R36 O - Oxidizing; R7 R43
Oxydipropyl dibenzoate 27138-31-4	248-258-5	>= 20 - <= 30 %	N - Dangerous for the environment; R51/53

For full text of the R-Phrases indicated by codes see section 16 'Other Information'.  
Substances without classification may have community workplace exposure limits available.

**4. First aid measures****Description of first aid measures:****Inhalation:**

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

**Skin contact:**

Immediately wash skin thoroughly with soap and water.  
Obtain medical attention if irritation persists.

**Eye contact:**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Seek medical advice.

**Ingestion:**

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.  
Seek medical advice.

**Most important symptoms and effects, both acute and delayed:**

EYE: Irritation, conjunctivitis.

SKIN: Rash, Urticaria.

**Indication of any immediate medical attention and special treatment needed:**

See section: Description of first aid measures

**5. Firefighting measures****Extinguishing media:****Suitable extinguishing media:**

Carbon dioxide, foam, powder

**Extinguishing media which must not be used for safety reasons:**

None known

**Special hazards arising from the substance or mixture:**

Oxides of carbon, oxides of nitrogen, irritating organic vapors.

**Advice for firefighters:**

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

**Additional information:**

Do not inhale vapors and fumes.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:**

Remove sources of ignition.  
Ensure adequate ventilation.

**Environmental precautions:**

Do not let product enter drains.

**Methods and material for containment and cleaning up:**

For large spills absorb onto inert absorbent material and place in sealed container for disposal.  
For small spills wipe up with paper towel and place in container for disposal.  
Wash spillage site thoroughly with soap and water or detergent solution.

**Reference to other sections:**

See advice in chapter 8

## 7. Handling and storage

**Precautions for safe handling:**

Do not inhale vapors and fumes.  
Avoid skin and eye contact.  
Keep away from sources of ignition - no smoking.  
Use only in well-ventilated areas.  
Avoid open flames and sources of ignition.  
No smoking.

**Hygiene measures:**

Good industrial hygiene practices should be observed.  
Do not eat, drink or smoke while working.  
Wash hands before work breaks and after finishing work.

**Conditions for safe storage, including any incompatibilities:**

Keep away from sources of ignition.  
Store in a cool, well-ventilated place.

**Specific end use(s):**

hardener component

## 8. Exposure controls/personal protection

**Control parameters:**

Valid for  
Great Britain

Ingredient	ppm	mg/m <sup>3</sup>	Type	Category	Remarks
DIBENZOYL PEROXIDE 94-36-0		5	Time Weighted Average (TWA):		EH40 WEL

**Exposure controls:****Respiratory protection:**

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

**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;  $\geq 0.4$  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;  $\geq 0.4$  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.

**Eye protection:**

Avoid eye contact.

Wear protective glasses.

## 9. Physical and chemical properties

**Information on basic physical and chemical properties:**

Appearance	paste yellow
Odor	Mild
pH	No data available / Not applicable
Initial boiling point	Not applicable
Flash point	> 50,0 °C (> 122 °F); Supplier method
Decomposition temperature	No data available / Not applicable
Vapour pressure	No data available / Not applicable
Density	1,2000 g/cm <sup>3</sup>
( )	
Bulk density	No data available / Not applicable
Viscosity	No data available / Not applicable
Viscosity (kinematic)	No data available / Not applicable
Explosive properties	No data available / Not applicable
Solubility (qualitative)	No data available / Not applicable
Solidification temperature	No data available / Not applicable
Melting point	No data available / Not applicable
Flammability	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Explosive limits	Not determined
Partition coefficient: n-octanol/water	No data available / Not applicable
Evaporation rate	No data available / Not applicable
Vapor density	No data available / Not applicable
Oxidising properties	No data available / Not applicable

**Other information:**

No data available / Not applicable

## 10. Stability and reactivity

**Reactivity:**

Reaction with reducing agents.

Heavy metals.

Reacts with acids.

**Possibility of hazardous reactions:**

See section reactivity

**Conditions to avoid:**

Heat, flames, sparks and other sources of ignition.

Store away from incompatible materials.

Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately.

**Incompatible materials:**

No data available.

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

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

**Oral toxicity:**

May cause irritation to the digestive tract.

**Inhalative toxicity:**

May cause irritation to respiratory system.

**Skin irritation:**

Prolonged or repeated contact may cause skin irritation.  
May cause sensitization by skin contact.

**Eye irritation:**

Irritating to eyes.

**Acute toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Oxydipropyl dibenzoate 27138-31-4	LD50	3.914 mg/kg	oral	4 h	rat	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
	LC50	> 200 mg/l	inhalation		rat	
	LD50	> 2.000 mg/kg	dermal		rat	

**Skin corrosion/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
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
Oxydipropyl dibenzoate 27138-31-4	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Respiratory or skin sensitization:**

Hazardous components CAS-No.	Result	Test type	Species	Method
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
Oxydipropyl dibenzoate 27138-31-4	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)

**Repeated dose toxicity**

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Oxydipropyl dibenzoate 27138-31-4	NOAEL=> 1000 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:**

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

Toxic to aquatic organisms

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

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

**Ecotoxicity:**

No data available for the product.

**Mobility:**

Cured adhesives are immobile.

**Toxicity:**

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Dibenzoyl peroxide 94-36-0	LC50	2 mg/l	Fish	96 h	Poecilia reticulata	OECD Guideline 203 (Fish, Acute Toxicity Test)
Dibenzoyl peroxide 94-36-0	EC50	2,91 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation 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	EC50	15 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		> 60 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Oxydipropyl dibenzoate 27138-31-4	readily biodegradable	aerobic	87 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

**Bioaccumulative potential / Mobility in soil:**

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
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Dibenzoyl peroxide 94-36-0	3,46					
Oxydipropyl dibenzoate 27138-31-4	3,9					OECD Guideline 117 (Partition Coefficient (n- octanol / water), HPLC Method)

### 13. Disposal considerations

**Waste treatment methods:**

## Product disposal:

Incineration under controlled conditions is recommended.

## 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.

## Waste code

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances

### 14. Transport information

**Road transport ADR:**

Class: 5.2  
Packaging group:  
Classification code: P1  
Hazard ident. number:  
UN no.: 3108  
Label: 5.2  
Technical name: ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)  
Tunnelcode: (D)  
Additional substance property: Environmentally Hazardous

**Railroad transport RID:**

Class: 5.2  
Packaging group:  
Classification code: P1  
Hazard ident. number: 539  
UN no.: 3108  
Label: 5.2  
Technical name: ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)  
Tunnelcode:  
Additional substance property: Environmentally Hazardous

**Inland water transport ADN:**

Class: 5.2  
Packaging group:  
Classification code: P1  
Hazard ident. number:  
UN no.: 3108  
Label: 5.2  
Technical name: ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)  
Additional substance property: Environmentally Hazardous

**Marine transport IMDG:**

Class: 5.2  
Packaging 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) (Dipropylenglycol dibenzoate)

**Air transport IATA:**

Class:	5.2
Packaging group:	
Packaging instructions (passenger)	510
Packaging instructions (cargo)	513
UN no.:	3108
Label:	5.2, HEAT
Proper shipping name:	Organic peroxide type E, solid (Dibenzoyl peroxide)

**Further information for transport:**

When transporting as a set (component A and B) then the following dangerous good classification is used: UN 3269 Polyester resin kit, 3, III.

## 15. Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture:**

## 16. Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

- R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.
- R36 Irritating to eyes.
- R43 May cause sensitisation by skin contact.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R7 May cause fire.
- H241 Heating may cause a fire or explosion.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.

**Further information:**

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.

This safety data sheet was prepared in accordance with Council Directive 67/548/EEC and its subsequent amendments, and Commission Directive 1999/45/EC.