

Safety Data Sheet according to Regulation (EC) No1907/2006

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SDS No.: 205009

V004.1

Revision: 27.10.2014 printing date: 02.01.2015

GELCOAT HARDENER 6G

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

GELCOAT HARDENER 6G

Contains:

Dibenzoyl peroxide

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use:

hardener component

1.3. 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-products a fety.uk@uk.henkel.com

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Skin sensitizer	Category 1
H317 May cause an allergic skin reaction.	
Acute hazards to the aquatic environment	Category 1
H400 Very toxic to aquatic life.	
Chronic hazards to the aquatic environment	Category 2
H411 Toxic to aquatic life with long lasting effects.	
Serious eye irritation	Category 2
H319 Causes serious eye irritation.	
Organic peroxides	Type E
	Type F
H242 Heating may cause a fire.	

Classification (DPD):

O - Oxidizing

R7 May cause fire.

Xi - Irritant

R36 Irritating to eyes.

Sensitizing

R43 May cause sensitisation by skin contact.

N - Dangerous for the

environment

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Label elements (CLP):



Signal	word.	Warning
Signal	woru:	w arming

H242 Heating may cause a fire. Hazard statement: H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

Prevention P273 Avoid release to the environment. P280 Wear protective gloves.

No smoking.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. Precautionary statement: Response P337+P313 If eye irritation persists: Get medical advice/attention.

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Label elements (DPD):

O - Oxidizing



N - Dangerous for the environment







Risk phrases:

R7 May cause fire.

R36 Irritating to eyes.

R43 May cause sensitisation by skin contact.

R50/53 Very 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.

Contains:

Dibenzoyl peroxide

2.3. Other hazards

None if used properly.

SECTION 3: Composition/information on ingredients

General chemical description:

Hardener

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

Hazardous components	EC Number	content	Classification
CAS-No.	REACH-Reg No.		
Dibenzoyl peroxide	202-327-6	40- 60 %	Organic peroxides B
94-36-0	01-2119511472-50		H241
			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
			M factor: 10
Oxydipropyl dibenzoate	248-258-5	25- 30 %	Chronic hazards to the aquatic environment 3
27138-31-4	01-2119529241-49		H412

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.

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

Hazardous components	EC Number	content	Classification
CAS-No.	REACH-Reg No.		
Dibenzoyl peroxide	202-327-6	40 - 60 %	E - Explosive; R3
94-36-0	01-2119511472-50		Xi - Irritant; R36
			O - Oxidizing; R7
			R43
			N - Dangerous for the environment; R50
Oxydipropyl dibenzoate	248-258-5	25 - 30 %	N - Dangerous for the environment; R51/53
27138-31-4	01-2119529241-49		

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.

SECTION 4: First aid measures

4.1. 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.

Eve 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.

4.2. Most important symptoms and effects, both acute and delayed

EYE: Irritation, conjunctivitis.

SKIN: Rash, Urticaria.

Prolonged or repeated contact may cause skin irritation.

4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide, foam, powder

5.2. Special hazards arising from the substance or mixture

Intensifies fire by releasing oxygen.

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

5.3. Advice for firefighters

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

Additional information:

In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Remove sources of ignition.

Ensure adequate ventilation.

Avoid skin and eye contact.

6.2. Environmental precautions

Do not let product enter drains.

6.3. 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.

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. 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.

See advice in section 8

Avoid open flames and sources of ignition.

No smoking.

Hygiene measures:

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

Good industrial hygiene practices should be observed.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from sources of ignition.

Store in a cool, well-ventilated place.

7.3. Specific end use(s)

hardener component

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Great Britain

Ingredient	ppm	mg/m ³	Type	Category	Remarks
DIBENZOYL PEROXIDE 94-36-0		5	Time Weighted Average (TWA):		EH40 WEL
ZINC DISTEARATE, INHALABLE DUST 557-05-1		20	Short Term Exposure Limit (STEL):		EH40 WEL
ZINC DISTEARATE, INHALABLE DUST 557-05-1		10	Time Weighted Average (TWA):		EH40 WEL
ZINC DISTEARATE, RESPIRABLE DUST 557-05-1		4	Time Weighted Average (TWA):		EH40 WEL

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 $\label{eq:predicted} \textbf{Predicted No-Effect Concentration (PNEC):}$

Name on list	Environmental Compartment	Exposure period	Value		Remarks		
			mg/l	ppm	mg/kg	others	
Dibenzoyl peroxide	aqua					0,602 μg/L	
94-36-0	(freshwater)						
Dibenzoyl peroxide	aqua (marine					0,0602 μg/L	
94-36-0	water)						
Dibenzoyl peroxide	aqua					0,602 μg/L	
94-36-0	(intermittent						
	releases)						
Dibenzoyl peroxide	STP					0,35 mg/L	
94-36-0							
Dibenzoyl peroxide	sediment				0,338		
94-36-0	(freshwater)				mg/kg		
Dibenzoyl peroxide	soil				0,0758		
94-36-0					mg/kg		
Dibenzoyl peroxide	oral					6,67 mg/kg	
94-36-0						food	
Oxydipropyl dibenzoate	aqua					0,0037 mg/L	
27138-31-4	(freshwater)						
Oxydipropyl dibenzoate	aqua (marine					0,00037 mg/L	
27138-31-4	water)						
Oxydipropyl dibenzoate	aqua					0,037 mg/L	
27138-31-4	(intermittent						
	releases)						
Oxydipropyl dibenzoate	sediment				1,49 mg/kg		
27138-31-4	(freshwater)						
Oxydipropyl dibenzoate	sediment				0,149		
27138-31-4	(marine water)				mg/kg		
Oxydipropyl dibenzoate	soil				1 mg/kg		
27138-31-4							
Oxydipropyl dibenzoate	STP					10 mg/L	
27138-31-4							

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Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Dibenzoyl peroxide 94-36-0	Workers	Inhalation	Long term exposure - systemic effects		11,75 mg/m3	
Dibenzoyl peroxide 94-36-0	Workers	Dermal	Long term exposure - systemic effects		6,6 mg/kg bw/day	
Dibenzoyl peroxide 94-36-0	general population	Inhalation	Long term exposure - systemic effects		2,9 mg/m3	
Dibenzoyl peroxide 94-36-0	general population	Dermal	Long term exposure - systemic effects		3,3 mg/kg bw/day	
Dibenzoyl peroxide 94-36-0	general population	oral	Long term exposure - systemic effects		1,65 mg/kg bw/day	
Oxydipropyl dibenzoate 27138-31-4	Workers	Dermal	Acute/short term exposure - systemic effects		170 mg/kg bw/day	
Oxydipropyl dibenzoate 27138-31-4	Workers	Inhalation	Acute/short term exposure - systemic effects		35,08 mg/m3	
Oxydipropyl dibenzoate 27138-31-4	Workers	Inhalation	Long term exposure - systemic effects		8,8 mg/m3	
Oxydipropyl dibenzoate 27138-31-4	Workers	Dermal	Long term exposure - systemic effects		10 mg/kg bw/day	
Oxydipropyl dibenzoate 27138-31-4	general population	Dermal	Acute/short term exposure - systemic effects		80 mg/kg bw/day	
Oxydipropyl dibenzoate 27138-31-4	general population	Inhalation	Acute/short term exposure - systemic effects		8,7 mg/m3	
Oxydipropyl dibenzoate 27138-31-4	general population	oral	Acute/short term exposure - systemic effects		80 mg/kg bw/day	
Oxydipropyl dibenzoate 27138-31-4	general population	Dermal	Long term exposure - systemic effects		0,22 mg/kg bw/day	
Oxydipropyl dibenzoate 27138-31-4	general population	Inhalation	Long term exposure - systemic effects		8,69 mg/m3	
Oxydipropyl dibenzoate 27138-31-4	general population	oral	Long term exposure - systemic effects		5 mg/kg bw/day	

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Avoid naked flames, sparking and sources of ignition.

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Dust mask, P1 particle filter.

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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; >= 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; >= 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.

Eve protection:

Avoid eye contact.

Wear protective glasses.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

Skin protection:

Suitable protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance paste

white

Odor Mild

Odour threshold No data available / Not applicable

pH Not applicable

Initial boiling point

No data available / 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 1,2 g/cm³

(20°C (68°F))

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) Partially soluble

(20 °C (68 °F); Solvent: Water)

Solidification temperature No data available / Not applicable Melting point No data available / Not applicable No data available / Not applicable Flammability Auto-ignition temperature No data available / Not applicable **Explosive limits** No data available / Not applicable No data available / Not applicable Partition coefficient: n-octanol/water No data available / Not applicable Evaporation rate Vapor density No data available / Not applicable No data available / Not applicable Oxidising properties

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with acids.

Alkali metals

Heavy metals.

Reducing agents.

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10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Heat, flames, sparks and other sources of ignition. Danger of decomposition if exposed to heat.

10.5. Incompatible materials

See section reactivity

10.6. Hazardous decomposition products

At higher temperatures toxic gases may be generated.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/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.

Eye irritation:

Causes serious eye irritation.

Sensitizing:

May cause an allergic skin reaction.

Acute oral 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		rat	OECD Guideline 401 (Acute Oral Toxicity)

Acute inhalative toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Oxydipropyl dibenzoate 27138-31-4	LC50	> 200 mg/l	inhalation	4 h	rat	

Acute dermal toxicity:

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

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Oxydipropyl dibenzoate	not irritating	4 h	rabbit	OECD Guideline 404 (Acute
27138-31-4				Dermal Irritation / Corrosion)

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Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Oxydipropyl dibenzoate	slightly irritating	time	rabbit	OECD Guideline 405 (Acute
27138-31-4				Eye Irritation / Corrosion)

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Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Dibenzoyl peroxide	sensitising	Mouse	mouse	OECD Guideline 429 (Skin
94-36-0		local lymphnod e assay		Sensitisation: Local Lymph Node Assay)
Oxydipropyl dibenzoate 27138-31-4	not sensitising	(LLNA)	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of	Metabolic activation /	Species	Method
CAS-No.					
		administration	Exposure time		
Oxydipropyl dibenzoate	negative	in vitro mammalian	with and without		OECD Guideline 473 (In vitro
27138-31-4		chromosome			Mammalian Chromosome
		aberration test			Aberration Test)
	negative	bacterial reverse	with and without		OECD Guideline 471
		mutation assay (e.g			(Bacterial Reverse Mutation
		Ames test)			Assay)
	negative	mammalian cell	with and without		OECD Guideline 476 (In vitro
		gene mutation assay			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)

SECTION 12: Ecological information

General ecological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

12.1. Toxicity

Ecotoxicity:

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

Very toxic to aquatic life with long lasting effects.

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Hazardous components	Value	Value	Acute	Exposure	Species	Method
CAS-No.	type		Toxicity Study	time		
Dibenzoyl peroxide	LC50	0,06 mg/l	Fish	96 h		OECD Guideline
94-36-0						203 (Fish, Acute
						Toxicity Test)
Dibenzoyl peroxide	EC50	0,11 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
94-36-0						202 (Daphnia sp.
						Acute
						Immobilisation
						Test)
Dibenzoyl peroxide	EC50	0,07 mg/l	Algae	72 h	Pseudokirchnerella subcapitata	OECD Guideline
94-36-0						201 (Alga, Growth
						Inhibition Test)
	NOEC	0,02 mg/l	Algae	72 h	Pseudokirchnerella subcapitata	OECD Guideline
						201 (Alga, Growth
						Inhibition Test)
Oxydipropyl dibenzoate	LC50	3,7 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline
27138-31-4						203 (Fish, Acute
						Toxicity Test)
Oxydipropyl dibenzoate	EC50	19,3 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
27138-31-4						202 (Daphnia sp.
						Acute
						Immobilisation
						Test)
Oxydipropyl dibenzoate	EC50	4,9 mg/l	Algae	72 h	Selenastrum capricornutum	OECD Guideline
27138-31-4					(new name: Pseudokirchnerella	
					subcapitata)	Inhibition Test)
	NOEC	1 mg/l	Algae	72 h	Selenastrum capricornutum	OECD Guideline
					(new name: Pseudokirchnerella	
				1	subcapitata)	Inhibition Test)

12.2. Persistence and degradability

Persistence and Biodegradability:

No data available for the product.

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)
Oxydipropyl dibenzoate 27138-31-4	readily biodegradable	aerobic	87 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Mobility:

No data available for the product.

Bioaccumulative potential:

No data available for the product.

Hazardous components	LogKow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.		factor (BCF)	time			
Dibenzoyl peroxide		66,6		fish		OECD Guideline 305
94-36-0						(Bioconcentration: Flow-
						through Fish Test)
Dibenzoyl peroxide	3,2				22 °C	OECD Guideline 117
94-36-0						(Partition Coefficient (n-
						octanol / water), HPLC
						Method)
Oxydipropyl dibenzoate	3,9					OECD Guideline 117
27138-31-4						(Partition Coefficient (n-
						octanol / water), HPLC
						Method)

12.5. Results of PBT and vPvB assessment

Hazardous components	PBT/vPvB
CAS-No.	

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J 1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Oxydipropyl dibenzoate 27138-31-4	Not fulfilling PBT (persistent/bioaccummulative/toxic) criteria

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of in accordance with local and national regulations.

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

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

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SECTION 14: Transport information

14.1. UN number

ADR	3108
RID	3108
ADNR	3108
IMDG	3108
IATA	3108

14.2. UN proper shipping name

ADR	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)
RID	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)
ADNR	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)
IMDG	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)

(Dipropylenglycol dibenzoate)

IATA Organic peroxide type E, solid (Dibenzoyl peroxide)

14.3. Transport hazard class(es)

5.2
5.2
5.2
5.2
5.2 (HEAT)

14.4. Packaging group

ADR RID ADNR

IMDG II IATA II

14.5. Environmental hazards

ADR	Environmentally Hazardous
RID	Environmentally Hazardous
ADNR	Environmentally Hazardous
IMDG	Environmentally Hazardous

IATA not applicable

14.6. Special precautions for user

ADR not applicable
Tunnelcode: (D)
RID not applicable
ADNR not applicable
IMDG not applicable
IATA not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

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15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 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.

R50 Very toxic to aquatic organisms.

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.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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.