Safety Data Sheet



Revision Date 19-Sep-2017

Version 1

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

1.1 Product identifier

MONDÉCO RAPIDE HARDENER **Product name**

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

Recommended Use Curing chemical

1.3 Details of the supplier of the safety data sheet

Supplier Alteco Technik GmbH

Raiffeisenstrasse 16 D-27239 Twistringen

Germany

Phone: +49 (0) 4243 92950 Fax: +49 (0) 4243 929589

This telephone number is available during office hours only

For further information, please contact: info@alteco-technik.de

1.4 Emergency telephone number

Emergency telephone number Chemtrec: +1 703-527-3887 ex-USA

Chemtrec: 1-800-424-9300 USA

Europe 112

+43 1 406 43 43 Austria

Poison center (BE): +32 70 245 245 **Belgium**

Denmark Poison Control Hotline (DK): +45 82 12 12 12 **Finland** Poison Information Centre (FI):+358 9 471 977

France ORFILA (FR): + 01 45 42 59 59

Germany Poison Center Berlin (DE): +49 030 30686 790

Poison Center Nord: +49 551 19240 (24h available English / German)

Ireland National Poisons Information Centre (IE): +353 1 8379964 / + 353 1 8092566

+354 543 2222 **Iceland**

Poison Centre, Milan (IT): +39 02 6610 1029 Italy

Luxembourg

Netherlands National Poisons Information Centre (NL): +31 30 274 88 88 (NB: this service is only

available to health professionals)

Poisons Information (NO):+ 47 22 591300 Norway

Poison Information Centre (PT): +351 21 330 3284 **Portugal** Spain Poison Information Service (ES): +34 91 562 04 20 Sweden Poisons Information Center (SV):+46 8 33 12 31 **Switzerland** Poison Center: Tel 145; +41 44 251 51 51

United Kingdom 111

2. Hazards identification

2.1 Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitisation	Category 1 - (H317)
Reproductive Toxicity	Category 2 - (H361)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 3 - (H412)
Organic peroxides	Type D - (H242)

2.2 Label elements



Signal Word Danger

Hazard Statements

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H361 - Suspected of damaging fertility or the unborn child

H410 - Very toxic to aquatic life with long lasting effects

H242 - Heating may cause a fire

Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P273 - Avoid release to the environment

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P220 - Keep away from dirt, rust, chemicals in particular

P234 - Keep only in original container

Contains DICYCLOHEXYL PHTHALATE, DIBENZOYL PEROXIDE

2.3. Other Hazards

No information available

3. Composition/information on ingredients

3.1 Substances

This product is a mixture. Health hazard information is based on its components

3.2 Mixtures

Chemical Name	EC-No	CAS No.	Weight-%	GHS Classification	REACH Registration Number
DICYCLOHEXYL	201-545-9	84-61-7	25 - 50	Skin Sens. 1 (H317)	01-2119978223-34-XX

PHTHALATE				Repr. 2 (H361) Aquatic Chronic 3 (H412)	XX
DIBENZOYL PEROXIDE	202-327-6	94-36-0	25 - 50	Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Org. Perox. B (H241) Aquat. Acute 1 (H400)	01-2119511472-50-XX XX

For the full text of the H-Statements mentioned in this Section, see Section 16

4. First Aid Measures

4.1 Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. When symptoms persist or in all

cases of doubt seek medical advice.

Inhalation Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention immediately if symptoms occur.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Get medical attention immediately if symptoms occur. Wash contaminated clothing before reuse. Thoroughly clean shoes before re-use.

Eye contact Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for

at least 15 minutes. If eye irritation persists, consult a specialist.

Ingestion If swallowed, call a poison control centre or doctor immediately. If swallowed, DO NOT

induce vomiting unless directed to do so by medical personnel. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an

unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms Eye irritation. May cause sensitisation by skin contact. Possible risk of impaired fertility.

Causes respiratory tract irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Persons with pre-existing skin, eye, or respiratory disease may be at increased risk from

the irritant or allergic properties of this material. Treat symptomatically. Risk of serious

damage to the lungs (by aspiration).

5. Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Dry chemical, Foam, Carbon dioxide (CO₂), Sand.

Extinguishing media which shall not be used for safety reasons

Halons.

5.2 Special hazards arising from the substance or mixture

CAUTION: re-ignition may occur. Sustains combustion. Risk of dust explosion. In the event of fire and/or explosion do not breathe fumes. Carbon dioxide (CO2). Carbon monoxide. Benzoic acid. Benzene. Hazardous decomposition products formed under fire conditions.

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Hazardous Combustion Products

Thermal decomposition can lead to release of irritating and toxic gases and vapours Carbon

dioxide (CO₂) Carbon monoxide Benzoic acid Benzene

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Full protective flameproof clothing. Protective gloves. Evacuate personnel to safe areas. Use water spray to cool unopened containers. Extinguish a small fire with powder or carbon dioxide then apply water to prevent re-ignition. After a fire, ventilate thoroughly the area and soak with water, clean the walls and metallic surfaces. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Do not breathe dust. Avoid contact with skin and eyes. Evacuate personnel to safe areas. Avoid dust formation. Ensure adequate ventilation. Remove all sources of ignition. For personal protection see section 8.

Advice for emergency responders

For personal protection see section 8.

6.2 Environmental precautions

Prevent product from entering drains.

6.3 Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Remove all sources of ignition. Prevent further leak

Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Keep contents moist. Confinement must be avoided. After cleaning, flush away traces with water.

6.4 Reference to other sections

See section 8 for more information.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

When using, do not eat, drink or smoke. Do not breathe dust. Use only in well-ventilated areas. Keep product and empty container away from heat and sources of ignition. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep away from reducing agents (e.g. amines), acids, alkalies and heavy metal compounds (e.g. accelerators, driers, metal soaps). Confinement must be avoided. Do not allow to dry. Avoid contact with skin and eyes. Wash hands before breaks and immediately after handling the product. Keep working clothes separately. Prevention of fire and explosion. Avoid dust formation. Risk of dust explosion. Use only explosion-proof equipment. It is recommended to use electrical equipment of temperature group T3. However, autoignition can never be excluded. Never pierce, drill, grind, cut, saw or weld any empty container. Keep away from combustible material. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

mixture is being used

Hygiene measuresEnsure that eyewash stations and safety showers are close to the workstation location.
Remove and wash contaminated clothing before re-use. Wash hands before breaks and

immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Storage Conditions

Store in accordance with the particular national regulations. Keep away from food, drink and animal feedingstuffs. Store in original

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container. Keep in a dry, cool and well-ventilated place. Keep away from direct sunlight. Store separate from other chemicals. Avoid temperatures above 25 °C. Keep away from heat and sources of ignition.

German storage class LGK 5.2

7.3 Specific end uses

Specific use(s)

No information available

Exposure scenario

No information available.

8. Exposure controls/personal protection

8.1 Control parameters

Exposure Limit Values

Chemical Name	European Union	Austria	Belgium	Denmark	Finland	France
DICYCLOHEXYL PHTHALATE 84-61-7		TWA: 5 mg/m ³		TWA: 3 mg/m ³		
DIBENZOYL PEROXIDE 94-36-0		STEL 10 mg/m ³ TWA: 5 mg/m ³	TWA: 5 mg/m ³	TWA: 5 mg/m ³	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 5 mg/m ³
Chemical Name	Germany	Iceland	Ireland	Italy	Luxembourg	The Netherlands
DICYCLOHEXYL PHTHALATE 84-61-7		TWA: 3 mg/m ³ Ceiling: 6 mg/m ³	TWA: 5 mg/m ³ STEL: 15 mg/m ³			
DIBENZOYL PEROXIDE 94-36-0	TWA: 5 mg/m ³	TWA: 5 mg/m ³ Ceiling: 10 mg/m ³	TWA: 5 mg/m³ STEL: 15 mg/m³	TWA: 5 mg/m ³		
Chemical Name	Norway	Portugal	Spain	Sweden	Switzerland	The United Kingdom
DICYCLOHEXYL PHTHALATE 84-61-7						STEL: 15 mg/m³ TWA: 5 mg/m³
DIBENZOYL PEROXIDE 94-36-0	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 5 mg/m ³	TWA: 5 mg/m ³		STEL: 5 mg/m ³ TWA: 5 mg/m ³	STEL: 15 mg/m³ TWA: 5 mg/m³

TWA: time weighted average
STEL: Short term exposure limit
LLV: Exposure Limit Values
STV: Short Term Value

Derived No Effect Level (DNEL)

No information available

Oral 1.65 mg/kg bw/day (General population DNEL long term oral systemic) (Dibenzoyl

peroxide)

0.25 mg/kg bw/day (General population DNEL long term oral systemic) (Dicyclohexyl

phthalate)

Dermal 3.3 mg/kg bw/day (General population DNEL long term dermal systemic) (Dibenzoyl

peroxide)

0.25 mg/kg bw/day (General population DNEL long term dermal systemic) (Dicyclohexyl

phthalate)

Precautionary Statements -

Inhalation

2.9 mg/m³ (General population DNEL long term inhalation systemic) (Dibezoyl peroxide) 0.87 mg/m³ (General population DNEL inhalation acute local/systemic) (Dicyclohexyl

phthalate)

0.87 mg/m³ (General population DNEL long term inhalation systemic) (Dicyclohexyl

phthalate)

Derived No Effect Level (DNEL) Workers

Dermal 6.6 mg/kg bw/day (Worker DNEL long term dermal systemic) (Dibenzoyl peroxide)

0.5 mg/kg bw/day (Worker DNEL dermal acute systemic) (Dicyclohexyl phthalate) 0.5 mg/kg bw/day (Worker DNEL long term dermal systemic (Dicyclohexyl phthalate)

Precautionary Statements -

Inhalation

11.75 mg/m³ (Worker DNEL long term inhalation systemic) (Dibenzoyl peroxide) 35.2 mg/m³ (Worker DNEL inhalation acute systemic (Dicyclohexyl phthalate) 35.2 mg/m³ (Worker DNEL long term inhalation systemic (Dicyclohexyl phthalate)

Predicted No Effect Concentration

(PNEC)

No information available

Fresh Water 0.000602 mg/l (Dibenzoyl peroxide)

0.00362 mg/l (Dicyclohexyl phthalate)

Sea Water 0.0000602 mg/l (Dibenzoyl peroxide)

0.000362 mg/l (Dicyclohexyl phthalate)

Fresh water sediment 0.338 mg/kg (Dibenzoyl peroxide)

1.06 mg/kg (Dicyclohexyl phthalate)

Sea sediment 0.106 mg/kg (Dicyclohexyl phthalate)

Soil 0.0758 mg/kg (Dibenzoyl peroxide)

0.21 mg/kg (Dicyclohexyl phthalate)

Impact on Sewage Treatment 0.35 mg/l (Dibenzoyl peroxide)

10 mg/l (dicyclohexyl phthalate)

8.2 Exposure controls

Engineering Measures Ensure adequate ventilation. Use only in an area equipped with explosion proof exhaust

ventilation.

Personal protective equipment

Eye/Face Protection Hand Protection

Skin and body protection

Respiratory protection

Tightly fitting safety goggles.

Rubber gloves. Butyl rubber. Neoprene gloves.

Wear protective gloves/clothing.

Ensure adequate ventilation. In case of insufficient ventilation wear suitable respiratory

equipment. Half mask with a particle filter P2 (EN 143).

Hygiene measures Ensure that eyewash stations and safety showers are close to the workstation location.

Remove and wash contaminated clothing before re-use. Wash hands before breaks and

immediately after handling the product.

Environmental exposure controls Prevent product from entering drains.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Solid **Physical state Appearance** Powder Colour White Odour Mild

Odour Threshold No information available

Property Values Remarks

No information available pН Melting/freezing point

Decomposition

Boiling point/boiling range Not applicable No information available Flash Point Not applicable No information available **Evaporation rate** Not Applicable No information available

Flammability (solid, gas) No information available Flammability Limits in Air

upper flammability limit No information available lower flammability limit No information available

Vapour pressure No information available

Vapour density No information available **Specific Gravity** 1.23 (20 °C)

Water solubility Insoluble in water Solubility in other solvents No information available

Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Viscosity, kinematic

Viscosity, dynamic No information available **Explosive properties** No information available **Oxidising Properties** No information available

9.2 Other information

Peroxide content

SADT

No information available Volatile organic compounds (VOC) content 1230 kg/m3 (20 °C) **Density**

Bulk Density 640 kg/m³ (20 °C) Active oxygen content 3.3 %

50 %

55 °C

10. Stability and Reactivity

10.1 Reactivity

Hazardous polymerisation does not occur. Decomposes on heating.

10.2 Chemical stability

SADT – (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the following temperature: 55°C. Contact with incompatible substances can cause decomposition at or below the SADT 55°C. Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4 Conditions to Avoid

Heat, flames and sparks. Confinement must be avoided. Avoid temperatures above 25 °C. Avoid shock and friction. Do not allow to dry. Explosive when dry.

10.5 Incompatible Materials

Rust, Iron, Copper, Acids and bases, Heavy metal compounds, Reducing agents, Reacts violently in contact with acids, amines, driers, polymerisation accelerators and easily oxidized materials

10.6 Hazardous Decomposition Products

Benzoic acid. Benzene.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product Information

Inhalation

Thermal decomposition can lead to release of irritating gases and vapours. Irritating to

respiratory system.

Eye contact

Serious eye damage/eye irritation.

Skin contact

slight irritation. May cause an allergic skin reaction. May cause skin irritation.

Ingestion

Ingestion may cause irritation to mucous membranes.

The following values are calculated based on chapter 3.1 of the GHS document mg/l

Unknown Acute Toxicity

< 1 % of the mixture consists of ingredient(s) of unknown toxicity

- < 1 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- < 1 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- < 1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- < 1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour)
- < 1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

	Component information			
Chemical Name		LD50 Oral	LD50 Dermal	LC50 Inhalation
	DIBENZOYL PEROXIDE	> 5000 mg/kg (rat)		> 24.3 mg/l (Rat.dust)

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Skin corrosion/irritation May cause irritation.

Skill Corrosion/irritation way cause irritation.

Serious eye damage/eye irritation Causes serious eye damage. May cause eye irritation.

Respiratory or skin sensitisation May cause sensitisation by skin contact.

Germ Cell Mutagenicity None known.

Carcinogenicity No information available.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific target organ toxicity -

single exposure

No information available.

Specific target organ toxicity -

repeated exposure

No information available.

Target Organs Eyes. Respiratory system. Skin.

Aspiration hazard No information available.

12. Ecological information

12.1 Toxicity

< 1 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Ecotoxicity effects

May cause long-term adverse effects in the aquatic environment

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other
			aquatic invertebrates
DIBENZOYL PEROXIDE	EC50 (72h): 0.06 mg/l (Dibenzoyl	LC50 (96h): 0.06 mg/l (Dibenzoyl	EC50 (48h) : 0.11 mg/l (Dibenzoyl
	peroxide 78 %)	peroxide 78 %)	peroxide 78 %) - Daphnia magna

12.2 Persistence and degradability

Readily biodegradable.

12.3 Bioaccumulative potential

Bioconcentration factor (BCF). = 85. estimated.

12.4 Mobility in soil

Mobility in soil

No information available.

Mobility

 $\log Pow = 4.82 (25 °C)$

log Koc = 3.46 (estimated).

12.5 Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects.

Discharge into the environment must be avoided.

Chemical Name	EU - Endocrine Disrupters	EU - Endocrine Disruptors -	Japan - Endocrine Disruptor
	Candidate List	Evaluated Substances	Information
DICYCLOHEXYL PHTHALATE	Group III Chemical		

13. Disposal Considerations

13.1 Waste treatment methods

Waste from residues / unused

products

Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging

Dispose of in accordance with local regulations.

Other information

European Waste Catalogue. 160903 - peroxides, e.g. hydrogen peroxide.

14. Transport Information

ADR

14.1 UN 3106

14.2 Proper shipping name Organic Peroxide Type D, solid (Dibenzoylperoxide)

14.3 Hazard class 5.2 ADR/RID-Labels 5.2

14.4 Packing GroupNot regulated14.5 Environmental hazardNot applicable

14.6 Special ProvisionsNoneClassification CodeP1Tunnel restriction codeDHazard identification No539

IMDG

14.1 UN 3106

14.2 Proper shipping name Organic Peroxide Type D, solid (Dibenzoylperoxide)

14.3 Hazard class 5.2

14.4 Packing Group Not regulated

14.5 Marine pollutant Yes
14.6 Special Provisions None
EmS F-J. S-R

14.7 Transport in bulk according to No information available

MARPOL 73/78 and the IBC Code

IATA

14.1 UN 3106

14.2 Proper shipping name Organic Peroxide Type D, solid (Dibenzoylperoxide)

14.3 Hazard class 5.2

14.4 Packing GroupNot regulated14.5 Environmental hazardNot applicable

14.6 Special Provisions None **Note** "hot transport" forbiden by air.

15. Regulatory information

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

National regulatory information

Germany WGK Classification WGK = 1 (self classification)

Denmark - MAL Factor Not applicable

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

International Inventories

Complies **TSCA** Complies **EINECS/ELINCS** Complies **DSL PICCS** Complies Complies **ENCS** Complies **IECSC** Complies **AICS KECL** Complies

NZIoC -

Legend

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

15.2 Chemical Safety Assessment

No information available

16. Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H317 - May cause an allergic skin reaction

H361 - Suspected of damaging fertility or the unborn child if inhaled

H412 - Harmful to aquatic life with long lasting effects

H319 - Causes serious eye irritation

H241 - Heating may cause a fire or explosion

H400 - Very toxic to aquatic life

Key or legend to abbreviations and acronyms used in the safety data sheet

SADT (self-accelerating decomposition temperature)

Prepared By RPM Belgium

MONDÉCO RAPIDE HARDENER

Regulatory Affairs/Product Safety

Revision Date 19-Sep-2017

Revision NoteThis data sheet contains changes from the previous version in section(s):, 2, 3, 7, 8, 10, 11,

13, 14, 15.

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet
