



SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : BOND&FIX

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

Bi-component system to obtain a final hardened, non-reactive material.

1.3. Details of the supplier of the safety data sheet

TECHNIQUA HANDELS GmbH
Reichenhaller Straße 15
D-83451 Piding
Tel: +49 (8651) - 767 62 51
E-Mail: sales@techniqua.de

1.4. Emergency telephone number : +49 (0) 6131 - 19240.

Association/Organisation : Poison information center, Langenbeckstraße 1, D- 55131 Mainz.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Eye irritation, Category 2 (Eye Irrit. 2, H319).

Skin sensitisation, Category 1 (Skin Sens. 1, H317).

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Skin sensitisation (Xi, R 43).

Aquatic environmental hazard, chronic toxicity: harmful (R 52/53).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS07

Signal Word :

WARNING

Product identifiers :

EC 201-545-9

DICYCLOHEXYL PHTHALATE

EC 202-327-6

DIBENZOYL PEROXIDE

Hazard statements :

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H319

Causes serious eye irritation.

H412

Harmful to aquatic life with long lasting effects.

Precautionary statements - Prevention :

P261	Avoid breathing vapours.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statements - Response :	
P302 + P352	IF ON SKIN: Wash with plenty of 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.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
Precautionary statements - Disposal :	
P501	Dispose of contents/container at a disposal facility in accordance with local regulations.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures****Composition :**

Identification	(EC) 1272/2008	67/548/EEC	Note	%
CAS: 471-34-1 EC: 207-439-9 REACH: 01-2119486795-18 CALCIUM CARBONATE			[1]	50 \leq x % < 100
CAS: 1746-23-2 EC: 217-126-9 P-TERT-BUTYLSTYRENE	GHS07, GHS09 Wng Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335 Aquatic Chronic 2, H411	Xn,N Xn;R20 Xi;R36/37/38 N;R51/53		2.5 \leq x % < 10
CAS: 51728-26-8 EC: 500-111-9 REACH: 01-2119969962-19 PENTAERYTHRITOL, ETHOXYLATED, ESTERS WITH ACRYLIC ACID	GHS07, GHS09 Wng Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	Xi,N Xi;R36/38 N;R51/53		2.5 \leq x % < 10
CAS: 84-61-7 EC: 201-545-9 REACH: 01-2119978223-34 DICYCLOHEXYL PHTHALATE	GHS08, GHS07 Wng Skin Sens. 1, H317 Repr. 2, H361fd Aquatic Chronic 3, H412	Xn Repr. Cat. 3;R62-R63 Xi;R43 R52/53	[1] [2]	1 \leq x % < 2.5
CAS: 471-34-1 EC: 207-439-9 REACH: 01-2119486795-18 CALCIUM CARBONATE			[1]	1 \leq x % < 2.5
CAS: 94-36-0 EC: 202-327-6 REACH: 01-2119511472-50	GHS07, GHS09, GHS01, GHS02 Dgr 241	Xi,N,E,O Xi;R36-R43 N;R50 O;R7	[1]	1 \leq x % < 2.5

DIBENZOYL PEROXIDE	Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411 Aquatic Acute 1, H400 M Acute = 10	R3		
CAS: 13463-67-7 EC: 236-675-5 REACH: 01-2119489379-17			[1]	0 <= x % < 1
TITANIUM DIOXIDE				
INDEX: 015-011-00-6 CAS: 7664-38-2 EC: 231-633-2 REACH: 01-2119485924-24	GHS05 Dgr Skin Corr. 1B, H314	C C;R34	B [1]	0 <= x % < 1
PHOSPHORIC ACID				
CAS: 128-37-0 EC: 204-881-4			[1]	0 <= x % < 1
2,6-DI-TERT-BUTYL-P-CRÉSOL				

Information on ingredients :

- [1] Substance for which maximum workplace exposure limits are available.
[2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.
NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures**In the event of splashes or contact with eyes :**

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.
If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.
Watch out for any remaining product between skin and clothing, watches, shoes, etc.
In the event of an allergic reaction, seek medical attention.
If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing :

Do not give the patient anything orally.
In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.
Seek medical attention immediately, showing the label.

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

No data available.

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

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media**Suitable methods of extinction**

In the event of a fire, use :

- foam
- BC powder
- carbon dioxide (CO₂)
- dry sand

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6 : ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid any contact with the skin and eyes.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Fire prevention :

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid skin and eye contact with this mixture.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters****Occupational exposure limits :**

- European Union (2009/161/EU, 2006/15/EC, 2000/39/EC, 98/24/EC)

CAS	VME-mg/m ³ :	VME-ppm :	VLE-mg/m ³ :	VLE-ppm :	Notes :
7664-38-2	1	-	2	-	-

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
471-34-1	10 mg/m3	-	-	-	-
471-34-1	10 mg/m3	-	-	-	-
94-36-0	5 mg/m3	-	-	-	-
13463-67-7	10 mg/m3	-	-	-	-
7664-38-2	1 mg/m3	3 mg/m3	-	-	-
128-37-0	2 mg/m3	-	-	-	IVA

- Germany - AGW (BAuA - TRGS 900, 21/06/2010) :

CAS	VME :	VME :	Excess	Notes	
94-36-0	-	5 mg/m3 E	1(l)	DFG	

- Belgium (Order of 19/05/2009, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
471-34-1	10 mg/m3	-	-	-	-
471-34-1	10 mg/m3	-	-	-	-
94-36-0	5 mg/m3	-	-	-	-
13463-67-7	10 mg/m3	-	-	-	-
7664-38-2	1 mg/m3	2 mg/m3	-	-	-
128-37-0	10 mg/m3	-	-	-	-

- France (INRS - ED984 :2008) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
94-36-0	-	5	-	-	-	-
13463-67-7	-	10	-	-	-	-
7664-38-2	0.2	1	0.5	2	-	-
128-37-0	-	10	-	-	-	-

- Switzerland (SUVA 2009) :

CAS	VME-mg/m3 :	VME-ppm :	VLE-mg/m3 :	VLE-ppm :	Temps :	RSB :
94-36-0	5i	-	5i	-	15 min	-
13463-67-7	3a	-	-	-	-	-
7664-38-2	1	-	2	-	4x15	-
128-37-0	10 i	-	-	-	-	-

- UK / WEL (Workplace exposure limits, EH40/2005, 2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
471-34-1	10 mg/m3	-	-	-	TI
84-61-7	5 mg/m3	-	-	-	-
471-34-1	10 mg/m3	-	-	-	TI
94-36-0	5 mg/m3	-	-	-	-
13463-67-7	10 mg/m3	-	-	-	TI
7664-38-2	1 mg/m3	2 mg/m3	-	-	-
128-37-0	10 mg/m3	-	-	-	-

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

TITANIUM DIOXIDE (CAS: 13463-67-7)

Final use:

Exposure method:

Potential health effects:

DNEL :

Workers.

Ingestion.

Long term systemic effects.

700 mg/kg body weight/day

Exposure method:

Potential health effects:

DNEL :

Inhalation.

Long term local effects.

10 mg of substance/m3

DIBENZOYL PEROXIDE (CAS: 94-36-0)

Final use:

Exposure method:

Potential health effects:

DNEL :

Workers.

Dermal contact.

Long term systemic effects.

6.6 mg/kg body weight/day

Exposure method:

Potential health effects:

DNEL :

Inhalation.

Long term systemic effects.

11.75 mg of substance/m3

Final use:

Exposure method:

Consumers.

Ingestion.

Potential health effects: Long term systemic effects.
DNEL : 1.65 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 3.3 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 2.9 mg of substance/m3

CALCIUM CARBONATE (CAS: 471-34-1)

Final use: **Workers.**
Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 10 mg of substance/m3

Final use: **Consumers.**
Exposure method: Ingestion.
Potential health effects: Short term systemic effects.
DNEL : 6.1 mg/kg body weight/day

Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 6.1 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 10 mg of substance/m3

DICYCLOHEXYL PHTHALATE (CAS: 84-61-7)

Final use: **Workers.**
Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 0.5 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 35.2 mg of substance/m3

Final use: **Consumers.**
Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 0.25 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 0.25 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 0.87 mg of substance/m3

Predicted no effect concentration (PNEC):**TITANIUM DIOXIDE (CAS: 13463-67-7)**

Environmental compartment: Soil.
PNEC : 100 mg/kg

Environmental compartment: Fresh water.
PNEC : 0.127 mg/l

Environmental compartment: Sea water.
PNEC : 1 mg/l

Environmental compartment: PNEC :	Intermittent waste water. 0.61 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 1000 mg/kg
Environmental compartment: PNEC :	Marine sediment. 100 %@IDC_PNEC_SEDIMENT_MARIN_UNITS
Environmental compartment: PNEC :	Waste water treatment plant. 100 mg/l
DIBENZOYL PEROXIDE (CAS: 94-36-0) Environmental compartment: PNEC :	Soil. 0.0758 mg/kg
Environmental compartment: PNEC :	Fresh water. 0.602 µg/l
Environmental compartment: PNEC :	Sea water. 0.0602 µg/l
Environmental compartment: PNEC :	Intermittent waste water. 0.602 µg/l
Environmental compartment: PNEC :	Marine sediment. 0.338 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 0.35 mg/kg
CALCIUM CARBONATE (CAS: 471-34-1) Environmental compartment: PNEC :	Waste water treatment plant. 100 mg/l
DICYCLOHEXYL PHTHALATE (CAS: 84-61-7) Environmental compartment: PNEC :	Soil. 0.21 mg/kg
Environmental compartment: PNEC :	Fresh water. 0.00362 mg/l
Environmental compartment: PNEC :	Sea water. 0.000362 mg/l
Environmental compartment: PNEC :	Intermittent waste water. 0.0362 mg/l
Environmental compartment: PNEC :	Marine sediment. 1.06 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 10 mg/kg

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.
Store personal protective equipment in a clean place, away from the work area.
Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.
Use eye protectors designed to protect against liquid splashes
Before handling, wear safety goggles with protective sides accordance with standard EN166.
In the event of high danger, protect the face with a face shield.
Prescription glasses are not considered as protection.
Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.
Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.
Gloves must be selected according to the application and duration of use at the workstation.
Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.
Recommended properties :
- Impervious gloves in accordance with standard EN374

- Body protection

Avoid skin contact.
Wear suitable protective clothing.
Suitable type of protective clothing :
In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.
In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.
Work clothing worn by personnel shall be laundered regularly.
After contact with the product, all parts of the body that have been soiled must be washed.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties****General information :**

Physical state :	Fluid liquid.
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Important health, safety and environmental information

pH :	Not relevant.
Flash Point Interval :	PE > 100°C.
Vapour pressure (50°C) :	Not relevant.
Density :	> 1
Water solubility :	Insoluble.

9.2. Other information

No data available.

SECTION 10 : STABILITY AND REACTIVITY**10.1. Reactivity**

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid :
- heat
- exposure to light

10.5. Incompatible materials

Keep away from :
- oxidising agents

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

May cause an allergic reaction by skin contact.

11.1.1. Substances

Acute toxicity :

TITANIUM DIOXIDE (CAS: 13463-67-7)

Oral route : LD50 > 5000 mg/kg
Species : Rat

Inhalation route : LC50 = 3.43 mg/l
Species : Rat

DIBENZOYL PEROXIDE (CAS: 94-36-0)

Oral route : LD50 > 5000 mg/kg
Species : Rat

CALCIUM CARBONATE (CAS: 471-34-1)

Oral route : LD50 > 2000 mg/kg
Species : Rat
OECD Guideline 420 (Acute Oral Toxicity Fixed Dose Method)

Dermal route : LD50 > 2000 mg/kg
Species : Rat
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route : LC50 = 3 mg/l
OECD Guideline 403 (Acute Inhalation Toxicity)

DICYCLOHEXYL PHTHALATE (CAS: 84-61-7)

Oral route : LD50 > 2000 mg/kg
Species : Rat

PENTAERYTHRITOL, ETHOXYLATED, ESTERS WITH ACRYLIC ACID (CAS: 51728-26-8)

Oral route : LD50 = 2000 mg/kg
Species : Rat

Dermal route : LD50 = 2000 mg/kg
Species : Rat

Respiratory or skin sensitisation :

CALCIUM CARBONATE (CAS: 471-34-1)

Local lymph node stimulation test : Non-Sensitiser.
Species : Mouse
OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

PENTAERYTHRITOL, ETHOXYLATED, ESTERS WITH ACRYLIC ACID (CAS: 51728-26-8)

Local lymph node stimulation test : Non-Sensitiser.
Species : Guinea pig
OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity :

CALCIUM CARBONATE (CAS: 471-34-1)

No mutagenic effect.

Carcinogenicity :

CALCIUM CARBONATE (CAS: 471-34-1)

Carcinogenicity Test :

Negative.

No carcinogenic effect.

Reproductive toxicant :

CALCIUM CARBONATE (CAS: 471-34-1)

No toxic effect for reproduction

OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the
Reproduction / Developmental Toxicity Screening Test)**Specific target organ systemic toxicity - repeated exposure :**

CALCIUM CARBONATE (CAS: 471-34-1)

Oral route :

C = 1300 mg/kg bodyweight/jour

Duration of exposure : 90 days

11.1.2. Mixture

No toxicological data available for the mixture.

Monograph(s) from the IARC (International Agency for Research on Cancer) :

CAS 94-36-0 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

SECTION 12 : ECOLOGICAL INFORMATION

Harmful to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1. Toxicity**12.1.1. Substances**

DICYCLOHEXYL PHTHALATE (CAS: 84-61-7)

Fish toxicity :

LC50 > 2 mg/l

Duration of exposure : 96 h

Crustacean toxicity :

EC50 > 2 mg/l

Duration of exposure : 48 h

Algae toxicity :

ECr50 = 0.06 mg/l

Duration of exposure : 72 h

PENTAERYTHRITOL, ETHOXYLATED, ESTERS WITH ACRYLIC ACID (CAS: 51728-26-8)

Fish toxicity :

LC50 = 2.18 mg/l

Species : Brachydanio rerio

Duration of exposure : 72 h

Crustacean toxicity :

EC50 = 90.94 mg/l

Species : Daphnia magna

Duration of exposure : 48 h

Algae toxicity :

ECr50 >= 100 mg/l

Duration of exposure : 72 h

DIBENZOYL PEROXIDE (CAS: 94-36-0)

Fish toxicity :

LC50 = 0.0602 mg/l

Factor M = 10

Duration of exposure : 96 h

NOEC = 0.0316 mg/l

Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 0.11 mg/l

Factor M = 1

Species : Daphnia magna

Duration of exposure : 48 h

NOEC = 0.0765 mg/l
Species : *Daphnia magna*
Duration of exposure : 48 h

Algae toxicity :

ECr50 = 0.06 mg/l
Factor M = 10
Duration of exposure : 72 h

NOEC = 0.06 mg/l
Duration of exposure : 72 h

CALCIUM CARBONATE (CAS: 471-34-1)

Fish toxicity :

LC50 >= 100 mg/l
Species : *Oncorhynchus mykiss*
Duration of exposure : 96 h
OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity :

EC50 >= 100 mg/l
Species : *Daphnia magna*
Duration of exposure : 48 h
OECD Guideline 202 (*Daphnia* sp. Acute Immobilisation Test)

Algae toxicity :

ECr50 > 14 mg/l
Species : *Desmodesmus subspicatus*
Duration of exposure : 72 h
OECD Guideline 201 (Alga, Growth Inhibition Test)

NOEC = 14 mg/l
Species : *Desmodesmus subspicatus*
Duration of exposure : 72 h
OECD Guideline 201 (Alga, Growth Inhibition Test)

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

DIBENZOYL PEROXIDE (CAS: 94-36-0)

Biodegradability : Rapidly degradable.

DICYCLOHEXYL PHTHALATE (CAS: 84-61-7)

Biodegradability : Rapidly degradable.

PENTAERYTHRITOL, ETHOXYLATED, ESTERS WITH ACRYLIC ACID (CAS: 51728-26-8)

Biodegradability : Non-rapidly degradable.

12.3. Bioaccumulative potential

12.3.1. Substances

DIBENZOYL PEROXIDE (CAS: 94-36-0)

Bioaccumulation : BCF = 66.6

DICYCLOHEXYL PHTHALATE (CAS: 84-61-7)

Octanol/water partition coefficient : log K_{ow} = 4.82

Bioaccumulation : BCF = 85

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

German regulations concerning the classification of hazards for water (WGK) :

WGK 2 (VwVwS vom 27/07/2005, KBws) : Hazardous for water.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2013 - IMDG 2012 - ICAO/IATA 2014).

SECTION 15 : REGULATORY INFORMATION

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

- Classification and labelling information included in section 2:

The following regulations have been used:

- Directive 67/548/EEC and its adaptations
- Directive 1999/45/EC and its adaptations
- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.

- Container information:

No data available.

- Particular provisions :

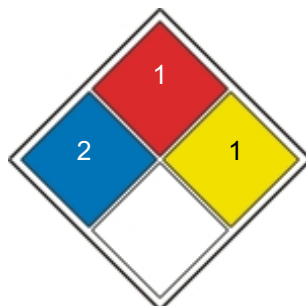
No data available.

- German regulations concerning the classification of hazards for water (WGK) :

WGK 2 (VwVwS vom 27/07/2005, KBws) : Hazardous for water.

- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :

NFPA 704, Labelling: Health=2 Inflammability=1 Instability/Reactivity=1 Specific Risk=none



15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.
The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Hazard symbols :



Irritant

Contains :

EC 202-327-6 DIBENZOYL PEROXIDE
EC 201-545-9 DICYCLOHEXYL PHTHALATE

Risk phrase :

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 43 May cause sensitisation by skin contact.

Safety phrase :

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 7 Keep container tightly closed.
S 60 This material and its container must be disposed of as hazardous waste.

Title for H, EUH and R indications mentioned in section 3 :

H241	Heating may cause a fire or explosion.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
R 20	Harmful by inhalation.
R 3	Extreme risk of explosion by shock, friction, fire or other sources of ignition.
R 34	Causes burns.
R 36	Irritating to eyes.
R 36/37/38	Irritating to eyes, respiratory system and skin.
R 36/38	Irritating to eyes and skin.
R 43	May cause sensitisation by skin contact.
R 50	Very toxic to aquatic organisms.
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 62.F3	Possible risk of impaired fertility.
R 63.G3	Possible risk of harm to the unborn child.
R 7	May cause fire.

Abbreviations :

DNEL : Derived No-Effect Level
PNEC : Predicted No-Effect Concentration
CMR: Carcinogenic, mutagenic or reprotoxic.
ADR : European agreement concerning the international carriage of dangerous goods by Road.
IMDG : International Maritime Dangerous Goods.
IATA : International Air Transport Association.
ICAO : International Civil Aviation Organisation
RID : Regulations concerning the International carriage of Dangerous goods by rail.
WGK : Wassergefährdungsklasse (Water Hazard Class).
GHS07 : Exclamation mark