

ORAC DecoFix Hydro

UM252 - 06/2016

SAFETY DATA SHEET

Based upon Regulation (EC) No. 1907/2006, as amended by Regulation (EC) No. 453/2010



DecoFix Hydro
FDP700 290 ml
> 7 to 8 m

ORAC[®]
D E C O R

MADE IN EU

ORAC nv/sa Biekorfstraat 32, 8400 Ostend, Belgium
T +32 (0)59 80 32 52 | F +32 (0)59 80 28 10
info@oracdecor.com | www.oracdecor.com

Created by: Brandweerinformatiecentrum voor Gevaarlijke Stoffen vzw (BIG) - Technische Schoolstraat 43 A, B-2440 Geel
www.big.be

Publication date: 2010-09-06

Date of revision: 2012-05-18

Reason for revision: CLP

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier:

Product name: ORAC DecoFix Hydro
Registration number REACH: Not applicable (mixture)
Product type REACH: Mixture (Organic)

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

1.2.1 Relevant identified uses: Sealant
1.2.2 Uses advised against: No uses advised against known

1.3 Company/undertaking identification:

ORAC NV
Biekorfstraat 32
8400 Oostende
T: 0032 (0)59 80 32 52
F: 0032 (0)59 80 28 10
info@oracdecor.com

1.4 Emergency telephone number:

24h/24h : +32 14 58 45 45 (BIG)
(Telephone advice: English, French, German, Dutch)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Classification according to Regulation EC No 1272/2008
Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Classification according to Directive 67/548/EEC-1999/45/EC
Not classified as dangerous according to the criteria of directive(s) 67/548/EEC and/or 1999/45/EC

2.2 Label elements:

Labelling according to Regulation EC No 1272/2008 (CLP)
Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)
Not classified as dangerous in compliance with Directive 67/548/EEC and/or Directive 1999/45/EC

2.3 Other hazards:

DSD/DPD
Slightly irritant to eyes
Contains traces of a (possible) fertility impairing substance
Contains traces of a (possible) teratogenic substance

CLP

Slightly irritant to eyes
Contains traces of a (possible) fertility impairing substance
Contains traces of a (possible) teratogenic substance

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Not applicable

3.2 Mixtures:

Name (REACH Registration No):
distillates (petroleum), hydrotreated middle (-)

CAS No / EC No:

64742-46-7

205-148-2

Conc. (C): 1%<C<10%

Classification according to DSD/DPD:

Xn; R20 - 65

Xi; R38

Classification according to CLP:

Acute Tox. 4; H332

Asp. Tox. 1; H304

Skin Irrit. 2; H315

Note: (1)(2)(10)

Remark: UVCB

Name (REACH Registration No):

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate (Not applicable)

CAS No / EC No:

52829-07-9

258-207-9

Conc. (C): 0.1%<C<2.5%

Classification according to DSD/DPD: Xi; R36 - N; R51-53

Classification according to CLP:

Eye Irrit. 2; H319

Aquatic Chronic 2; H411

Note: (1)

Remark: Mono-constituent

(1) For R-phrases and H-statements in full: see heading 16
(2) Substance with a Community workplace exposure limit
(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

4. FIRST AID MEASURES

4.1 Description of first aid measures:

General:

- If you feel unwell, seek medical advice.

After inhalation:

- Remove the victim into fresh air. Respiratory problems: consult a doctor/ medical service.

After skin contact:

- Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists.

After eye contact:

- Rinse with water. Take victim to an ophthalmologist if irritation persists.

After ingestion:

- Rinse mouth with water. Consult a doctor/medical service if you feel unwell.

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

4.2.1 Acute symptoms

After inhalation: No effects known.

After skin contact: No effects known.

After eye contact: No effects known.

After ingestion: No effects known.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media:

5.1.1 Suitable extinguishing media:

Water spray. Polyvalent foam. ABC powder. Carbon dioxide.

5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

5.2 Special hazards arising from the substance or mixture:

Upon combustion: formation of CO, CO² and small quantities of nitrous vapours, hydrogen chloride, sulphur oxides.

5.3 Advice for firefighters:

5.3.1 Instructions:

No specific fire-fighting instructions required.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

No naked flames.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing. Suitable protective clothing

See heading 8.2

6.2 Environmental precautions:

Use appropriate containment to avoid environmental contamination.

6.3 Methods and material for containment and cleaning up:

Scoop solid spill into closing containers. Clean contaminated surfaces with a soap solution. Wash clothing and equipment after handling.

6.4 Reference to other sections:

See heading 13.

7. HANDLING AND STORAGE

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1 Precautions for safe handling:

Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed. Remove contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:

- Storage temperature: 20 °C.

- Store in a dry area.

- Keep container in a well-ventilated place.

- Store at room temperature.

- Meet the legal requirements.

- Max. storage time: 1 year(s).

7.2.2 Keep away from: Heat sources, water/moisture.

7.2.3 Suitable packaging material: Synthetic material.

7.2.4 Non suitable packaging material: No data available

7.3 Specific end use(s):

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer .

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

Limit Value (Belgium)

- Huiles minérales (brouillards)

- Short time value: ppm - 10 mg/m³

- Time-weighted average exposure limit 8 h: ppm - 5 mg/m³

TLV (USA)

- Mineral oil, poorly and mildly refined

- Short time value:

- Time-weighted average exposure limit 8 h: (L)

(L): Exposure by all routes should be carefully controlled to levels as low as possible

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

| <i>Product name</i> | <i>Test</i> | <i>Number</i> |
|---------------------|-------------|---------------|
| Oil Mist (Mineral) | OSHA | ID 178SG |
| Oil Mist (Mineral) | NIOSH | 5026 |
| Oil Mist (Mineral) | OSHA | ID 128 |

8.1.3 Applicable limit values when using the substance or mixture as intended.

If limit values are applicable and available these will be listed below.

8.1.4 DNEL/PNEC values

Workers

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

Effect level (DNEL/DMEL): DNEL

Type: Acute systemic effects inhalation

Value: 2 mg/kg bw/day

Type: Acute systemic effects dermal

Value: 5.6 mg/m³

Type: Long-term systemic effects dermal

Value: 2 mg/kg bw/day

Type: Long-term systemic effects inhalation

Value: 5.6 mg/m³

General population

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

Effect level (DNEL/DMEL): DNEL

Type: Acute systemic effects dermal

Value: 1 mg/kg bw/day

Type: Acute systemic effects inhalation

Value: 1.4 mg/m³

Type: Acute -systemic effects oral

Value: 1 mg/kg bw/day

Type: Long-term systemic effects dermal

Value: 1 mg/kg bw/day

Type: Long-term systemic effects inhalation

Value: 1.4 mg/m³

Type: Long-term systemic effects oral

Value: 1 mg/kg bw/day

PNEC

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

| Compartments: | Value: |
|------------------------------|-------------------------|
| Fresh water | 0.005 mg/l |
| Marine water | 0.0005 mg/l |
| aqua (intermittent releases) | 0.011 mg/l |
| STP | 1 mg/l |
| Fresh water sediment | 8.02 mg/kg sediment dw |
| Fresh water | 0.802 mg/kg sediment dw |
| Soil | 1.6 mg/kg soil dw |

8.1.5 Control banding

If applicable and available it will be listed below.

8.2 Exposure controls:

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

- Keep away from naked flames/heat.
- Measure the concentration in the air regularly.
- Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment.

- Observe normal hygiene standards.

- Keep container tightly closed.

- Do not eat, drink or smoke during work.

a) Respiratory protection: Insufficient ventilation: wear respiratory protection.

b) Hand protection: Gloves.

c) Eye protection: Safety glasses.

d) Skin protection: Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

- Physical form: Paste
- Odour: Characteristic odour
- Odour threshold: No data available
- Colour: Variable in colour, depending on the composition
- Particle size: Not applicable
- Explosion limits: No data available
- Flammability: Literature reports direct fire hazard
- Log Kow: No data available
- Dynamic viscosity: No data available
- Kinematic viscosity: No data available
- Melting point: No data available
- Boiling point: No data available
- Flash point: > 240 °C
- Evaporation rate: No data available
- Vapour pressure: No data available
- Relative vapour density: No data available
- Solubility water: insoluble
- Organic solvents: soluble
- Relative density: 1.4; 20 °C
- Decomposition temperature: No data available
- Auto-ignition temperature: No data available
- Explosive properties: No chemical group associated with explosive properties
- Oxidising properties: No chemical group associated with oxidising properties
- pH: No data available
- Physical hazards: No physical hazard class

9.2 Other information:

Surface tension: No data available

Absolute density: 1400 kg/m³; 20 °C

10. STABILITY AND REACTIVITY

10.1 Reactivity:

No data available.

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

No data available.

10.4 Conditions to avoid:

Keep away from naked flames/heat.

10.5 Incompatible materials:

Water/moisture.

10.6 Hazardous decomposition products:

Upon combustion: formation of CO, CO² and small quantities of nitrous vapours, hydrogen chloride, sulphur oxides.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

11.1.1 Test results

Acute toxicity

ORAC DecoFix Hydro

No (test) data on the mixture available

distillates (petroleum), hydrotreated middle

| <i>route of exposure</i> | <i>Parameter</i> | <i>Method</i> | <i>Value</i> | <i>Exposure time</i> | <i>Species</i> | <i>Gender</i> | <i>Value determination</i> |
|--------------------------|------------------|------------------------|-------------------|----------------------|----------------|---------------|----------------------------|
| Oral | LD50 | Equivalent to OECD 401 | > 5000 mg/kg bw | | Rat | M/F | Experimental |
| Dermal | LD50 | Equivalent to OECD 402 | >2000 mg/kg bw | 24 h | Rabbit | M/F | Read-across |
| Inhalation (aerosol) | LC50 | Equivalent to OECD 403 | 3.92-5.4 mg/l air | 4 h | Rat | M/F | Read-across |
| Inhalation (aerosol) | LC50 | Equivalent to OECD 403 | 1.44-2.2 mg/l air | 4 h | Rat | M/F | Read-across |

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

| <i>route of exposure</i> | <i>Parameter</i> | <i>Method</i> | <i>Value</i> | <i>Exposure time</i> | <i>Species</i> | <i>Gender</i> | <i>Value determination</i> |
|--------------------------|------------------|------------------------|-----------------|------------------------------------|----------------|---------------|----------------------------|
| Oral | LD50 | Equivalent to OECD 423 | 3700 mg/kg bw | 4 h | Rat | M/F | Experimental |
| Dermal | LD50 | Equivalent to OECD 402 | > 3170 mg/kg bw | 24 h | Rat | M/F | Experimental |
| Inhalation (aerosol) | LC50 | Equivalent to OECD 403 | 0.5 mg/l air | 4 weeks (daily, 5 days/week) | Rat | M/F | Experimental |

Classification of the mixture is based on the relevant ingredients of the mixture

Conclusion:

- Low acute toxicity by the dermal route
- Low acute toxicity by the oral route
- Low acute toxicity by the inhalation route

Corrosion/irritation

ORAC DecoFix Hydro

No (test) data on the mixture available

distillates (petroleum), hydrotreated middle

| <i>Route of exposure</i> | <i>Result</i> | <i>Method</i> | <i>Exposure time</i> | <i>Time point</i> | <i>Species</i> | <i>Value determination</i> |
|--------------------------|----------------|-------------------------|----------------------|-------------------|----------------|----------------------------|
| Eye | Not irritating | Equivalent aan OECD 405 | | 24 hrs | Rabbit | Read-across |
| Skin | Not irritating | Equivalent aan OECD 404 | 24 h | 24; 72 hrs | Rabbit | Read-across |
| Skin | Irritating | | | | | Literature study |

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacat

| <i>Route of exposure</i> | <i>Result</i> | <i>Method</i> | <i>Exposure time</i> | <i>Time point</i> | <i>Species</i> | <i>Value determination</i> |
|--------------------------|-------------------|---------------|----------------------|------------------------|----------------|----------------------------|
| Eye | Highly irritating | OECD 405 | 24 h | 1; 24; 48; 72; 168 hrs | Rabbit | Experimental |
| Skin | Not irritating | OECD 404 | 24 h | 24; 48; 72 hrs | Rabbit | Experimental |

Classification of the mixture is based on the relevant ingredients of the mixture.

Conclusion:

- Not classified as irritating to the skin
- Not classified as irritating to the eyes

Respiratory or skin sensitisation

ORAC DecoFix Hydro

No (test) data on the mixture available

distillates (petroleum), hydrotreated middle

| <i>Route of exposure</i> | <i>Result</i> | <i>Method</i> | <i>Exposure time</i> | <i>Observation time point</i> | <i>Species</i> | <i>Gender</i> | <i>Value determination</i> |
|--------------------------|-----------------|------------------------|----------------------|-------------------------------|----------------|---------------|----------------------------|
| Skin | Not sensitizing | Equivalent to OECD 406 | 24 h | 24; 48 hrs | Hamster | Male | Read-across |

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

| <i>Route of exposure</i> | <i>Result</i> | <i>Method</i> | <i>Exposure time</i> | <i>Observation time point</i> | <i>Species</i> | <i>Gender</i> | <i>Value determination</i> |
|--------------------------|-----------------|---------------|----------------------|-------------------------------|----------------|---------------|----------------------------|
| Skin | Not sensitizing | OECD 406 | | 24 hrs | Guinea pig | M/F | Experimental |

Classification of the mixture is based on the relevant ingredients of the mixture:

Conclusion:

- Not sensitizing for skin

Specific target organ toxicity

ORAC DecoFix Hydro

No (test)data on the mixture available

distillates (petroleum), hydrotreated middle

| <i>Route of exposure</i> | <i>Parameter</i> | <i>Method</i> | <i>Value</i> | <i>Organ</i> | <i>Effect</i> | <i>Exposure time</i> | <i>Species</i> | <i>Gender</i> | <i>Value determination</i> |
|--------------------------|------------------|------------------------|--------------------------|--------------|------------------|-------------------------------|----------------|---------------|----------------------------|
| Dermal | NOAEL | Equivalent to OECD 410 | 1000 mg/kg bw/day | | | 4 weeks (6h/day, 3 days/week) | Rat | Male/female | Read-across |
| Inhalation (aerosol) | LOEL | Equivalent to OECD 412 | 24 mg/m ³ air | Organ | Weight gain | 4 weeks (6h/day, 5 days/week) | Rat | Male/female | Read-across |
| Inhalation (aerosol) | NOAEC | Equivalent to OECD 413 | ≥ 1.71 mg/l air | | Systemic effects | 13 weeks (2 times/week) | Rat | Male/female | Read-across |
| Inhalation (aerosol) | NOAEC | Equivalent to OECD 413 | 0.88 mg/l air | Lungs | Local effects | 13 weeks (2 times/week) | Rat | Male/female | Read-across |

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

| <i>Route of exposure</i> | <i>Parameter</i> | <i>Method</i> | <i>Value</i> | <i>Organ</i> | <i>Effect</i> | <i>Exposure time</i> | <i>Species</i> | <i>Gender</i> | <i>Value determination</i> |
|--------------------------|------------------|------------------------|------------------|--------------|------------------|----------------------|----------------|---------------|----------------------------|
| Oral | NOAEL | Equivalent to OECD 408 | <29 mg/kg bw/day | | No effect | 13 week(s) | Rat | Female | Experimental value |
| Oral | LOAEL | Equivalent to OECD 408 | 29 mg/kg bw/day | | Weight reduction | 13 week(s) | Rat | Female | Experimental value |

Classification of the mixture is based on the relevant ingredients of the mixture

Conclusion

- Low sub-chronic toxicity by the dermal route
- Low sub-chronic toxicity by the oral route
- Low sub-chronic toxicity by inhalation route

Mutagenicity (in vitro)

ORAC DecoFix Hydro

No (test)data on the mixture available

distillates (petroleum), hydrotreated middle

| <i>Result</i> | <i>Method</i> | <i>Test substrate</i> | <i>Effect</i> | <i>Value determination</i> |
|------------------------------|------------------------|--------------------------|---------------|----------------------------|
| Limited positive test result | Equivalent to OECD 471 | Bacteria (S.typhimurium) | Read-across | |

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

| <i>Result</i> | <i>Method</i> | <i>Test substrate</i> | <i>Effect</i> | <i>Value determination</i> |
|---|------------------------|----------------------------------|--------------------|----------------------------|
| Negative with metabolic activation, negative without metabolic activation | OECD 476 | Chinese hamster lung fibroblasts | | Experimental value |
| Negative with metabolic activation, negative without metabolic activation | OECD 473 | Human lymphocytes | | Experimental value |
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 471 | Bacteria (S.typhimurium) | Experimental value | |

Mutagenicity (in vivo)

ORAC DecoFix Hydro

No (test)data on the mixture available

distillates (petroleum), hydrotreated middle

| <i>Result</i> | <i>Method</i> | <i>Exposure time</i> | <i>Test substrate</i> | <i>Gender</i> | <i>Value determination</i> |
|---------------|------------------------|----------------------|-----------------------|---------------|----------------------------|
| Negative | Equivalent to OECD 475 | 6, 24, 48 h | Rat | Male/female | Read-across |

Carcinogenicity

ORAC DecoFix Hydro

No (test)data on the mixture available

distillates (petroleum), hydrotreated middle

| <i>Route of exposure</i> | <i>Method</i> | <i>Value</i> | <i>Exposure time</i> | <i>Species</i> | <i>Gender</i> | <i>Value determination</i> | <i>Effect</i> |
|--------------------------|------------------------|--------------|----------------------|----------------|---------------|----------------------------|---------------|
| Dermal | Equivalent to OECD 451 | 100 % | 104 weeks (daily) | Mouse | Male | Experimental value | No effect |

Reproductive toxicity

ORAC DecoFix Hydro

No (test)data on the mixture available

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

| <i>Developmental toxicity</i> | | | | | | | |
|-------------------------------|---------------|-----------------|----------------------|----------------|---------------|----------------|----------------------------|
| <i>Parameter</i> | <i>Method</i> | <i>Value</i> | <i>Exposure time</i> | <i>Species</i> | <i>Gender</i> | <i>Effect</i> | <i>Value determination</i> |
| NOAEL (P/F1) | OECD 415 | 30 mg/kg bw/day | | Rat | Male/female | Weight changes | Experimental value |

Classification of the mixture is based on the relevant ingredients of the mixture

Conclusion CMR

- Not classified for reprotoxic or developmental toxicity
- Not classified for mutagenic or genotoxic toxicity
- Not classified for carcinogenicity

Toxicity other effects

ORAC DecoFix Hydro

No (test)data on the mixture available

Conclusion

No (test)data available

11.1.2 Other information

ORAC DecoFix Hydro

No (test)data on the mixture available

distillates (petroleum), hydrotreated middle

TLV - Carcinogen A2

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

ORAC DecoFix Hydro

No (test)data on the mixture available

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

| | Parameter | Method | Value | Dur. | Species | Test design | Fresh/salt water | Value determ. |
|--|-----------|---------------|------------|------------|----------------------------------|---------------------|------------------|---------------|
| Acute toxicity fishes | LC50 | | 4.4 mg/l | 96 u | Brachydanio rerio | | | |
| | LC50 | OECD 203 | 4.4 mg/l | 96 u | Lepomis macrochirus | Flow through system | fresh water | Experimental |
| | LC50 | OECD 203 | 5.29 mg/l | 96 u | Oryzias latipes | Semi-static | fresh water | Experimental |
| Acute toxicity invertebrates | EC50 | OECD 202 | 17 mg/l | 24 u | Daphnia magna | | | |
| | LC50 | OECD 202 | 8.58 mg/l | 48 u | Daphnia magna | Semi-static | fresh water | Experimental |
| | NOEC | OECD 202 | 4 mg/l | 48 u | Daphnia magna | Semi-static | fresh water | Experimental |
| toxicity algae and other aquatic plants | EC50 | OECD 201 | 1.1 mg/l | 72 u | Pseudokirchnerie lla subcapitata | Static systeem | fresh water | Experimental |
| | NOEC | OECD 201 | 0.05 mg/l | 72 u | Pseudokirchnerie lla subcapitata | Static systeem | fresh water | Experimental |
| | EC50 | EU Method C.3 | 1.9 mg/l | 72 u | Desmodesmus subspicatus | Static systeem | fresh water | Experimental |
| | NOEC | EU Method C.3 | <1.23 mg/l | 72 u | Desmodesmus subspicatus | Static systeem | fresh water | Experimental |
| Long term toxicity aquatic invertebrates | EC50 | OECD 211 | 1.31 mg/l | 21 dag(en) | Daphnia magna | Semi-statisch | fresh water | Experimental |
| | EC50 | OECD 211 | 0.96 mg/l | 21 dag(en) | Daphnia magna | Semi-statisch | fresh water | Experimental |
| | NOEC | OECD 211 | 0.23 mg/l | 21 dag(en) | Daphnia magna | Semi-statisch | fresh water | Experimental |
| | LOEC | OECD 211 | 0.61 mg/l | 21 dag(en) | Daphnia magna | Semi-statisch | fresh water | Experimental |
| Toxicity aquatic micro organisms | IC50 | OECD 209 | >100 mg/l | 3 u | Actief slib | Static system | fresh water | Experimental |

Conclusion

No data available on ecotoxicity

12.2 Persistence and degradability:

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

Conclusion

Contains non readily biodegradable component(s)

12.3 Bioaccumulative potential:

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

Log Kow

| Method | Value | Temperature | Value Determination |
|--------|-------|-------------|---------------------|
| | | 0.35 | |

Conclusion

No test data of component(s) available

12.4 Mobility in soil:

ORAC DecoFix Hydro

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate
(log) Koc

| Method | Value | Temperature | Value Determination |
|---------|----------|-----------------------|---------------------|
| Koc | OECD 106 | $\geq 780 \leq 16000$ | Experimental value |
| log Koc | OECD 106 | $\geq 2.89 \leq 4.2$ | Experimental value |

Volatility (Henry's Law constant H)

| Method | Value | Temperature | Value Determ. |
|--------------------------|--------------------|-------------|------------------|
| 0 Pa.m ³ /mol | SRC HenryWIN v3.20 | 25°C | Calculated value |

Conclusion

No (test)data on mobility of the components of the mixture available

12.5 Results of PBT and vPvB assessment:

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

12.6 Other adverse effects:

ORAC DecoFix Hydro

- Ozone-depleting potential (ODP): Not classified as dangerous for the ozone layer (Regulation (EC) No. 1272/2008 and 1005/2009)

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

- Ozone-depleting potential (ODP): Not classified as dangerous for the ozone layer (Regulation (EC) No. 1272/2008 and 1005/2009)
- Ground water: Ground water pollutant

SECTION 13: DISPOSAL CONSIDERATIONS

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1 Waste treatment methods:

13.1.1 Provisions relating to waste

Waste material code (Directive 2008/98/EC, decision 2001/118/EC).

08 04 10 (waste adhesives and sealants other than those mentioned in 08 04 09). Depending on branch of industry and production process, also other EURL codes may be applicable. Can be considered as non hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods

Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. Remove waste in accordance with local and/or national regulations. Do not discharge into drains or the environment.

13.1.3 Packaging/Container

Waste material code packaging (Directive 2008/98/EC).

15 01 02 (plastic packaging).

SECTION 14: TRANSPORT INFORMATION

Road (ADR)

14.1 UN number:

- Transport: Not subject
- UN number

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

- Hazard identification number:
- Class:

- Classification code:

14.4 Packing group:

- Packing group:

- Labels:

14.5 Environmental hazards:

- Environmentally hazardous substance mark: no

14.6 Special precautions for user:

- Special provisions:

- Limited quantities:

Rail (RID)

14.1 UN number:

- Transport: Not subject
- UN number:

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

- Hazard identification number:

- Class:

- Classification code:

14.4 Packing group:

- Packing group:

- Labels:

14.5 Environmental hazards:

- Environmentally hazardous substance mark: no

14.6 Special precautions for user:

- Special provisions:

- Limited quantities:

Inland waterways (ADN)

14.1 UN number:

- Transport: Not subject
- UN number:

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

- Class:

- Classification code:

14.4 Packing group:

- Packing group:

- Labels:

14.5 Environmental hazards:

Environmentally hazardous substance mark: no

14.6 Special precautions for user:

- Special provisions:

- Limited quantities:

Sea (IMDG)

14.1 UN number:

- Transport: Not subject
- UN number:

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

- Class:

14.4 Packing group:

- Packing group:

- Labels:

14.5 Environmental hazards:

- Marine pollutant:
- Environmentally hazardous substance mark: no

14.6 Special precautions for user:

- Special provisions:
- Limited quantities:

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

Annex II of MARPOL 73/78

Air (ICAO-TI/IATA-DGR)

14.1 UN number:

- Transport: Not subject
- UN number:

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

- Class:

14.4 Packing group:

- Packing group:
- Labels:

14.5 Environmental hazards:

- Environmentally hazardous substance mark: no

14.6 Special precautions for user:

- Special provisions:
- Passenger and cargo transport: limited quantities: maximum net quantity per packaging:

SECTION 15: REGULATORY INFORMATION

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

European legislation:

- Volatile organic compounds (VOC): 2%
- REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

distillates (petroleum), hydrotreated middle

Liquid substances or mixtures, which are regarded as dangerous according to the definitions in Council Directive 67/548/EEC and Directive 1999/54/EC:

1. Shall not be used in: - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, - tricks and jokes, - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
2. Articles not complying with paragraph 1 shall not be placed on the market.
3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: - can be used as fuel in decorative oil lamps for supply to the general public, and, - present an aspiration hazard and are labelled with R65 or H304
4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage"; b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip

of grill lighter may lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.

6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.

7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available

National legislation

The Netherlands

- Waterbezwaarlijkheid (for NL) 1

- Waste identification other lists of waste materials LWCA (the Netherlands): KGA category 05

Germany

WGK 1 Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

15.2 Chemical safety assessment:

No chemical safety assessment has been conducted.

SECTION 16: OTHER INFORMATION

Full text of any R-phrases referred to under headings 2 and 3:

R20 Harmful by inhalation

R36 Irritating to eyes

R38 Irritating to skin

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

R65 Harmful: may cause lung damage if swallowed

Full text of any H-statements referred to under headings 2 and 3:

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

H315 Causes skin irritation.

(*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive

DPD Dangerous Preparation Directive

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited.

Consult your BIG licence agreement for details.