

**TECHNOSEAL**

 Creation date 26th March 2020  
 Revision date Version 2.0

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

- 1.1. Product identifier**  
 Substance / mixture TECHNOSEAL  
 Number mixture  
 R 34904
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
 Mixture's intended use Sprayable sealing product.  
 Mixture uses advised against For professional use only.
- 1.3. Details of the supplier of the safety data sheet**  
**Supplier**  
 Name or trade name RETECH, s.r.o.  
 Address Vackova 1541/4, Praha 5 - Stodůlky, 155 00  
 Czech Republic  
 Identification number (CRN) 25018205  
 VAT Reg No CZ25018205  
 Phone +420327596428  
 E-mail info@retech.cz  
 Web address www.retech.com
- Competent person responsible for the safety data sheet**  
 Name RETECH, s.r.o.  
 E-mail info@retech.cz
- 1.4. Emergency telephone number**  
 RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic; Telephone number: +420 327 596 128 (7.30-16.00 hour)  
 Poisoning information centre, Na Bojišti 1, Praha, Czech Republic, Tel.: non-stop +420 224 919 293 or +420 224 915 402, Information on health risks only - acute poisoning of humans and animals.

**SECTION 2: Hazards identification**

- 2.1. Classification of the substance or mixture**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**  
 The mixture is not classified as dangerous according to Regulation (EC) No 1272/2008.  
 Full text of all classifications and hazard statements is given in the section 16.
- 2.2. Label elements**  
**Supplemental information**  
 EUH 210 Safety data sheet available on request.  
 EUH 208 Contains Dioctylbis(pentane-2,4-dionato-O,O')tin. May produce an allergic reaction.
- 2.3. Other hazards**  
 Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

**SECTION 3: Composition/information on ingredients**

- 3.2. Mixtures**  
**Chemical characterization**  
 Mixture of substances and additives specified below.  
**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
EC: 934-956-3 Registration number: 01-2119827000-58	Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	1-<10	Asp. Tox. 1, H304	1, 2

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
CAS: 54068-28-9 EC: 483-270-6 Registration number: 01-0000020199-67	Diocylbis(pentane-2,4-dionato-O,O')tin	1-<5	Skin Sens. 1, H317 STOT SE 2, H371 STOT RE 2, H373 Specific concentration limit: Skin Sens. 1, H317: C > 5 %	1

**Notes**

- 1 The use of the substance is restricted by Annex XVII of REACH Regulation
- 2 Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.

Full text of all classifications and hazard statements is given in the section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

**If inhaled**

Terminate the exposure immediately; move the affected person to fresh air. In the event of issues, find medical advice.

**If on skin**

Wash with plenty of soap and water. In the event of issues, find medical advice.

**If in eyes**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. In the event of issues, find medical advice.

**If swallowed**

Rinse out the mouth with clean water. In the event of issues, find medical help.

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

**If inhaled**

Not expected.

**If on skin**

Not expected.

**If in eyes**

Mild irritation.

**If swallowed**

Not expected.

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

not available

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Polyvalent foam, ABC powder, carbon dioxide.

**Unsuitable extinguishing media**

not available

**5.2. Special hazards arising from the substance or mixture**

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise.

**5.3. Advice for firefighters**

Use a self-contained breathing apparatus and full-body protective clothing.

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**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8.

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

Place the spilled product mechanically in the properly closed containers and dispose of it according to the section 13. After removal of the product, wash the contaminated site with plenty of water. Wash contaminated clothing before reuse.

**6.4. Reference to other sections**

See the Section 7, 8 and 13.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Keep away from heat, open flames. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Take off contaminated clothing.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep cool. Keep away from heat, open flames.

**7.3. Specific end use(s)**

not available

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

none

**DNEL**

Diocylbis(pentane-2,4-dionato-O,O')tin

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	84 mg/m <sup>3</sup>	Systemic chronic effects	
Workers	Inhalation	84 mg/m <sup>3</sup>	Systemic acute effects	
Workers	Inhalation	0.091 mg/m <sup>3</sup>	Local chronic effects	
Workers	Dermal	0.07 mg/kg bw/day	Systemic chronic effects	

**PNEC**

Diocylbis(pentane-2,4-dionato-O,O')tin

Route of exposure	Value	Determining method
Freshwater environment	0.026 mg/l	
Seawater	0.0026 mg/l	
Water (intermittent release)	0.26 mg/l	
Freshwater sediment	0.155 mg/kg of dry substance of sediment	
Sea sediments	0.0155 mg/kg of dry substance of sediment	
Soil (agricultural)	0.0158 mg/kg of dry substance of soil	
Microorganisms in wastewater treatment plants	1 mg/l	

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**8.2. Exposure controls**

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Keep away from heat, open flames. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

**Eye/face protection**

Protective goggles.

**Skin protection**

Hand protection: Protective gloves resistant to the product. Other protection: protective workwear.

**Respiratory protection**

It is not needed.

**Thermal hazard**

Not available.

**Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Appearance	paste
Physical state	liquid at 20°C
color	transparent
Odour	characteristic
Odour threshold	data not available
pH	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	data not available
Flash point	data not available
Evaporation rate	data not available
Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
flammability limits	data not available
explosive limits	data not available
Vapour pressure	data not available
Vapour density	data not available
Relative density	1.5
Solubility(ies)	
solubility in water	insoluble
solubility in fats	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	data not available
Explosive properties	data not available
Oxidising properties	data not available
data not available	

**9.2. Other information**

Density	1.5 g/cm <sup>3</sup> at 20 °C
ignition temperature	data not available
content of organic solvents (VOC)	2.29 %
Max. VOC content in the product in its ready to use condition	34.39 g/l

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**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

not available

**10.2. Chemical stability**

The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

not available

**10.4. Conditions to avoid**

Keep away from heat, open flames.

**10.5. Incompatible materials**

not available

**10.6. Hazardous decomposition products**

Not developed under normal uses. In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

No toxicological data is available for the mixture.

**Acute toxicity**

Based on available data the classification criteria are not met.

Diocetylbis(pentane-2,4-dionato-O,O')tin

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Determining method	Source
Oral	LD <sub>50</sub>	OECD 423	2500 mg/kg		Rat	F	Experimentally	
Dermal	LD <sub>50</sub>	OECD 402	>2000000 mg/kg	24 hour	Rat	F/M	Experimentally	
Inhalation (vapor)	LD <sub>50</sub>		1224 ppm	4 hour	Rat	F/M	Experimentally	Equivalent to OECD 403

Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Determining method	Source
Oral	LD <sub>50</sub>		>5000 mg/kg bw		Rat	F/M	Experimentally	Equivalent to OECD 401
Dermal	LD <sub>50</sub>		>3160 mg/kg bw	24 hour	Rabbit	F/M	Experimentally	Equivalent to OECD 402
Inhalation	LC <sub>50</sub>		>5266 mg/m <sup>3</sup> of air	4 hour	Rat	F/M	Experimentally	Equivalent to OECD 403

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**Skin corrosion/irritation**

Based on available data the classification criteria are not met.

Diocetylbis(pentane-2,4-dionato-O,O')tin

Route of exposure	Result	Method	Time of exposure	Species	Determining method
Skin	Not irritating	OECD 404	4 hour	Rabbit	Experimentally

Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, &lt; 0.03% aromatics

Route of exposure	Result	Method	Time of exposure	Species	Determining method
Skin	Not irritating	OECD 404	4 hour	Rabbit	Experimentally

**Serious eye damage/irritation**

Based on available data the classification criteria are not met.

Diocetylbis(pentane-2,4-dionato-O,O')tin

Route of exposure	Result	Method	Time of exposure	Species	Determining method
Eye	Not irritating	OECD 405		Rabbit	Experimentally

Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, &lt; 0.03% aromatics

Route of exposure	Result	Method	Time of exposure	Species	Determining method
Eye	Not irritating	OECD 405	24 hour	Rabbit	Experimentally

**Respiratory or skin sensitisation**

Based on available data the classification criteria are not met.

Diocetylbis(pentane-2,4-dionato-O,O')tin

Route of exposure	Result	Method	Time of exposure	Species	Sex	Determining method
Skin	Sensitizing	OECD 429		Mouse	F	Experimentally

Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, &lt; 0.03% aromatics

Route of exposure	Result	Method	Time of exposure	Species	Sex	Determining method
Skin	Not sensitizing	OECD 406		Guinea-pig	F	Read-across

**Mutagenicity**

Diocetylbis(pentane-2,4-dionato-O,O')tin

Result	Method	Time of exposure	Specific target organ	Species	Sex	Determining method	Source
No effect, Negative	OECD 476		Lung fibroblast	Chinese hamster		Experimentally	in vitro
No effect, Negative	OECD 473		Lung fibroblast	Chinese hamster		Experimentally	in vitro
No effect, Negative	OECD 471			Bacteria (Salmonella typhimurium)		Experimentally	in vitro
Negative	OECD 474		Bone marrow	Mouse	M	Experimentally	in vivo

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Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, &lt; 0.03% aromatics

Result	Method	Time of exposure	Specific target organ	Species	Sex	Determining method	Source
Negative without metabolic regeneration, Negative with metabolic regeneration	OECD 471			Bacteria (Salmonella typhimurium)		Experimentally	in vitro
Negative without metabolic regeneration, Negative with metabolic regeneration	OECD 476			Mouse (lymphoma)		Read-across	in vitro
Negative without metabolic regeneration, Negative with metabolic regeneration	OECD 473		Ovary	Chinese hamster		Read-across	in vitro
Negative	OECD 483	8 week (6 hour/day, 5 days/week)	Male reproductive organs	Mouse	M	Read-across	in vivo
Negative	OECD 475		Bone marrow	Rat	F/M	Read-across	in vivo
Negative	OECD 474	24, 48, 72 hour	Bone marrow	Mouse	F/M	Read-across	in vivo

**Germ cell mutagenicity**

Based on available data the classification criteria are not met.

**Carcinogenicity**

Based on available data the classification criteria are not met.

**Reproductive toxicity**

Based on available data the classification criteria are not met.

Diocylbis(pentane-2,4-dionato-O,O')tin

	Parameter	Method	Value	Time of exposure	Specific target organ	Result	Species	Sex	Determining method	Source
	NOAEL	OECD 422	0.3-0.5 mg/kg bw/day	28 day	Lymphatic system	No effect	Rat		Experimentally	
Effects on fertility	NOAEL	OECD 422	0.3-0.5 mg/kg bw/day	28 day		No effect	Rat	F/M	Experimentally	

Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, &lt; 0.03% aromatics

	Parameter	Method	Value	Time of exposure	Specific target organ	Result	Species	Sex	Determining method	Source
Developmental toxicity	NOAEL	OECD 414	>1000 mg/kg bw/day	10 day		No effect	Rat	F	Experimentally	

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Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, &lt; 0.03% aromatics

	Parameter	Method	Value	Time of exposure	Specific target organ	Result	Species	Sex	Determining method	Source
	NOAEL	OECD 414	>1000 mg/kg bw/day	10 day		No effect	Rat	F	Experimentally	
Effects on fertility	NOAEL (P)		>1000 mg/kg bw/day	10 day		No effect	Rat	F/M	Read-across	Equivalent to OECD 422
Effects on fertility	NOAEL (P)		>1000 mg/kg bw/day	10 day		No effect	Rat	F/M	Read-across	Equivalent to OECD 421

**Toxicity for specific target organ - single exposure**

Based on available data the classification criteria are not met.

Diocylbis(pentane-2,4-dionato-O,O')tin

Route of exposure	Parameter	Method	Value	Time of exposure	Specific target organ	Result	Species	Sex	Determining method	Source
Oral	NOAEL	OECD 422	0.3 mg/kg bw/day	28 day	Lymphatic system	No effect	Rat	F/M	Experimentally	
Inhalation (vapor)	NOEC		100 ppm	14 week (6 hour/day, 5 days/week)		No effect	Rat	F/M	Experimentally	Equivalent to OECD 413
Inhalation (vapor)	LOAEC		650 ppm	14 week (6 hour/day, 5 days/week)		Histopathology	Rat	F/M	Experimentally	Equivalent to OECD 413

Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, &lt; 0.03% aromatics

Route of exposure	Parameter	Method	Value	Time of exposure	Specific target organ	Result	Species	Sex	Determining method	Source
Oral	NOAEL	OECD 408	>5000 mg/kg bw/day	13 week		No effect	Rat	F/M	Read-across	
Dermal	NOAEL	OECD 411	>495 mg/kg/24hour	13 week (5 days/week)		No effect	Rat	F/M	Read-across	
Inhalation (vapor)	NOAEC	OECD 413	10186 mg/m <sup>3</sup> of air	13 week (6 hour/day, 5 days/week)		No effect	Rat	F/M	Read-across	

**Toxicity for specific target organ - repeated exposure**

Based on available data the classification criteria are not met.

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**Aspiration hazard**

Based on available data the classification criteria are not met.

**SECTION 12: Ecological information**
**12.1. Toxicity**
**Acute toxicity**

Data for the mixture are not available.

Diocylbis(pentane-2,4-dionato-O,O')tin

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method	Source
LC <sub>50</sub>	OECD 203	86 mg/l	96 hour	Fishes (Pisces)		Experimentally, Static system	
EC <sub>50</sub>	OECD 202	58.6 mg/l	48 hour	Daphnia (Daphnia magna)		Experimentally, Static system	
EC <sub>50</sub>	OECD 201	300 mg/l	24 hour	Algae (Scenedesmus subspicatus)		Experimentally, Static system	

Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, &lt; 0.03% aromatics

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method	Source
LC <sub>50</sub>	OECD 203	>1028 mg/l	96 hour	Fishes (Scophthalmus maximus)	Salt water	Experimentally, GLP, Semi static system	
LC <sub>50</sub>		>3193 mg/l	48 hour	Invertebrates (Acartia tonsa)	Salt water	Experimentally, GLP, Static system	ISO 14669
EC <sub>50</sub>	ISO 10253	>10000 mg/l	72 hour	Algae (Skeletonema)	Salt water	Experimentally, GLP, Static system	
EC <sub>50</sub>	OECD 209	>100 mg/l	3 hour	Aquatic mikroorganisms	Activated sludge	Experimentally, GLP, Static system	

**Chronic toxicity**

Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, &lt; 0.03% aromatics

Parameter	Value	Time of exposure	Species	Environment	Determining method	Source
NOEL	>1000 mg/l	28 day	Fishes (Oncorhynchus mykiss)	Freshwater	QSAR, Indicator of growth	
NOEL	>100 mg/l	8 day	Invertebrates (Ceriodaphnia dubia)	Freshwater	Nominal concentration, QSAR, Semi static system	US EPA

**12.2. Persistence and degradability**

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**Biodegradability**

Dioctylbis(pentane-2,4-dionato-O,O')tin

Parameter	Method	Value	Time of exposure	Environment	Determining method	Result
	OECD 301F	9 %	28 day		Experimentally, GLP	

Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, &lt; 0.03% aromatics

Parameter	Method	Value	Time of exposure	Environment	Determining method	Result
	OECD 306	74 %	28 day		Experimentally, GLP	

Contains non readily biodegradable components.

**12.3. Bioaccumulative potential**

Not available.

**12.4. Mobility in soil**

Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, &lt; 0.03% aromatics

Parameter	Value	Environment	Surrounding temperature	Determining method	Source
Fraction air	0.3 %			Calculation of value	Makay level III
Fraction sediment	92.8 %			Calculation of value	Makay level III
Fraction soil	6.8 %			Calculation of value	Makay level III
Fraction water	0.1 %			Calculation of value	Makay level III

Contains component(s) that adsorb(s) into the soil.

**12.5. Results of PBT and vPvB assessment**

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

**12.6. Other adverse effects**

Water hazard class 1 (german Regulation, self-assessment): slightly hazardous for water.

**SECTION 13: Disposal considerations**
**13.1. Waste treatment methods**

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Perfectly cleaned containers can be submitted for recycling.

**Waste management legislation**

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

**Waste type code**

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

**Packaging waste type code**

15 01 02 plastic packaging

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**SECTION 14: Transport information****14.1. UN number**

Not subject to ADR

**14.2. UN proper shipping name**

not available

**14.3. Transport hazard class(es)**

not available

**14.4. Packing group**

not available

**14.5. Environmental hazards**

No

**14.6. Special precautions for user**

Reference in the Sections 4 to 8.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not available

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

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**Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended**

Diocetylbis(pentane-2,4-dionato-O,O')tin

Restriction	Conditions of restriction
20	<p>1. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is acting as biocide in free association paint.</p> <p>2. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture acts as biocide to prevent the fouling by micro-organisms, plants or animals of:</p> <p>(a) all craft irrespective of their length intended for use in marine, coastal, estuarine and inland waterways and lakes;</p> <p>(b) cages, floats, nets and any other appliances or equipment used for fish or shellfish farming;</p> <p>(c) any totally or partly submerged appliance or equipment.</p> <p>3. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is intended for use in the treatment of industrial waters.</p> <p>4. Tri-substituted organostannic compounds:</p> <p>(a) Tri-substituted organostannic compounds such as tributyltin (TBT) compounds and triphenyltin (TPT) compounds shall not be used after 1 July 2010 in articles where the concentration in the article, or part thereof, is greater than the equivalent of 0,1 % by weight of tin.</p> <p>(b) Articles not complying with point (a) shall not be placed on the market after 1 July 2010, except for articles that were already in use in the Community before that date.</p> <p>5. Dibutyltin (DBT) compounds:</p> <p>(a) Dibutyltin (DBT) compounds shall not be used after 1 January 2012 in mixtures and articles for supply to the general public where the concentration in the mixture or the article, or part thereof, is greater than the equivalent of 0,1 % by weight of tin.</p> <p>(b) Articles and mixtures not complying with point (a) shall not be placed on the market after 1 January 2012, except for articles that were already in use in the Community before that date.</p> <p>(c) By way of derogation, points (a) and (b) shall not apply until 1 January 2015 to the following articles and mixtures for supply to the general public:</p> <ul style="list-style-type: none"> <li>— one-component and two-component room temperature vulcanisation sealants (RTV-1 and RTV-2 sealants) and adhesives,</li> <li>— paints and coatings containing DBT compounds as catalysts when applied on articles,</li> <li>— soft polyvinyl chloride (PVC) profiles whether by themselves or coextruded with hard PVC,</li> <li>— fabrics coated with PVC containing DBT compounds as stabilisers when intended for outdoor applications,</li> <li>— outdoor rainwater pipes, gutters and fittings, as well as covering material for roofing and façades,</li> </ul> <p>(d) By way of derogation, points (a) and (b) shall not apply to materials and articles regulated under Regulation (EC) No 1935/2004.</p> <p>6. Diocetyltin (DOT) compound:</p> <p>(a) Diocetyltin (DOT) compounds shall not be used after 1 January 2012 in the following articles for supply to, or use by, the general public, where the concentration in the article, or part thereof, is greater than the equivalent of 0,1 % by weight of tin:</p> <ul style="list-style-type: none"> <li>— textile articles intended to come into contact with the skin,</li> <li>— gloves,</li> <li>— footwear or part of footwear intended to come into contact with the skin,</li> <li>— wall and floor coverings,</li> <li>— childcare articles,</li> <li>— female hygiene products,</li> <li>— nappies,</li> <li>— two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits).</li> </ul> <p>(b) Articles not complying with point (a) shall not be placed on the market after 1 January 2012, except for articles that were already in use in the Community before that date.</p>

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Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics, Dioctylbis(pentane-2,4-dionato-O,O')tin

Restriction	Conditions of restriction
03	<p>1. Shall not be used in:</p> <ul style="list-style-type: none"> <li>— ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,</li> <li>— tricks and jokes,</li> <li>— games for one or more participants, or any article intended to be used as such, even with ornamental aspects,</li> </ul> <p>2. Articles not complying with paragraph 1 shall not be placed on the market.</p> <p>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:</p> <ul style="list-style-type: none"> <li>— can be used as fuel in decorative oil lamps for supply to the general public, and,</li> <li>— present an aspiration hazard and are labelled with R65 or H304,</li> </ul> <p>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).</p> <p>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:</p> <p>(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";</p> <p>(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";</p> <p>(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.</p> <p>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.</p> <p>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 to the Commission.</p>

**15.2. Chemical safety assessment**

not available

**SECTION 16: Other information**

**A list of standard risk phrases used in the safety data sheet**

- H304 May be fatal if swallowed and enters airways.
- H317 May cause an allergic skin reaction.
- H371 May cause damage to organs.
- H373 May cause damage to organs through prolonged or repeated exposure.

**A list of additional standard phrases used in the safety data sheet**

- EUH 210 Safety data sheet available on request.
- EUH 208 Contains Dioctylbis(pentane-2,4-dionato-O,O')tin. May produce an allergic reaction.

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**Other important information about human health protection**

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

**Key to abbreviations and acronyms used in the safety data sheet**

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC <sub>50</sub>	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC <sub>50</sub>	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log K <sub>ow</sub>	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Asp. Tox.	Aspiration hazard
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure

**TECHNOSEAL**

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STOT SE Specific target organ toxicity - single exposure

**Training guidelines**

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

**Recommended restrictions of use**

not available

**Information about data sources used to compile the Safety Data Sheet**

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

**The changes (which information has been added, deleted or modified)**

The version 2.0 replaces the SDS version from 13.11.2018. Changes were made in sections 2, 3, 8, 9, 11, 12, 13, 15 and 16.

**Statement**

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.