

**OCTYLPHENOL PT**

Version: 8.07

Revision Date 07.02.2019

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

Trade name	OCTYLPHENOL PT
REACH No.	01-2119541687-29-0001
Substance name (REACH / CLP)	4-(1,1,3,3-Tetramethylbutyl)phenol

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

Use	Industrial use
Uses advised against	raw material for synthesis processes in the chemical industry

**1.3 Details of the supplier of the safety data sheet**

Company	SASOL Germany GmbH Anckelmannsplatz 1 20537 Hamburg
	Telephone: +49 40 63684-1000 Telefax: +49 40 63684-3700
Information (Product safety):	Telephone: + 49 (0) 23 65 - 49 47 05 Telefax: + 49 (0) 23 65 - 49 92 40
E-mail address	msds-info.germany@de.sasol.com

**1.4 Emergency telephone number**

Emergency telephone number	+ 49 (0) 23 65 - 49 22 32
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**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Skin irritation Category 2	Causes skin irritation.
Serious eye damage Category 1	Causes serious eye damage.
Short-term (acute) aquatic hazard Category 1	Very toxic to aquatic life.
Long-term (chronic) aquatic hazard Category 1	Very toxic to aquatic life with long lasting effects.

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)****Hazard pictograms**

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<b>Signal word</b>	Danger
<b>Hazard statements</b>	
H315	Causes skin irritation.
H318	Causes serious eye damage.
H410	Very toxic to aquatic life with long lasting effects.
<b>Precautionary statements</b>	
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P501	Dispose of contents/ container to an approved waste disposal plant.

**2.3 Other hazards**

None known.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

This product is a substance in the meaning of regulation (EC) 1907/2006.

**COMPONENTS TO BE NAMED IN ACCORDANCE WITH REGULATION (EC) 1907/2006 AS WELL AS OTHER HAZARDOUS INGREDIENTS AND CONTAINED SUBSTANCES WITH WORK PLACE LIMIT VALUES****4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol****content:** >= 90 - <= 100 %**component type:** Active ingredient**EC-No.:** 205-426-2**Index-No.:** 604-075-00-6**CAS-No.:** 140-66-9**REACH No.:** 01-2119541687-29-0001**Substance name (REACH / CLP):** 4-(1,1,3,3-Tetramethylbutyl)phenol**Classification (Regulation** Skin Irrit. 2 H315**(EC) No 1272/2008):** Eye Dam. 1 H318

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

For information on ingredients listed on the candidate list (Candidate List of Substances of Very High Concern for Authorisation) or in the list of substances subject to authorization (Annex XIV of Regulation (EC) No 1907/2006), see section 15.1. of this data sheet.

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

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures****General advice**

If you feel unwell, seek medical advice (show the label where possible).

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<b>If inhaled</b>	Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician.
<b>In case of skin contact</b>	Wash off immediately with soap and plenty of water. Consult a physician.
<b>In case of eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>If swallowed</b>	Do NOT induce vomiting. Call a physician immediately.

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

<b>Most important symptoms and effects, both acute and delayed</b>	Symptoms: No information available. Risks: No information available.
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**4.3 Indication of any immediate medical attention and special treatment needed**

<b>Indication of any immediate medical attention and special treatment needed</b>	Treatment: No information available.
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**SECTION 5: FIREFIGHTING MEASURES**

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**5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	Water spray, Dry powder, Foam, Carbon dioxide (CO2)
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**5.2 Special hazards arising from the substance or mixture**

<b>Specific hazards during firefighting</b>	Dangerous gases or fumes may occur in case of fire.
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**5.3 Advice for firefighters**

<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus for firefighting if necessary.
<b>Further information</b>	Prevent fire extinguishing water from contaminating surface water or the ground water system.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

<b>Personal precautions</b>	Avoid dust formation. Use personal protective equipment.
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**6.2 Environmental precautions**

<b>Environmental precautions</b>	Should not be released into the environment.
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**6.3 Methods and materials for containment and cleaning up**

<b>Methods for cleaning up</b>	Use mechanical handling equipment.
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**6.4 Reference to other sections**

For personal protection see section 8.

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## SECTION 7: HANDLING AND STORAGE

## 7.1 Precautions for safe handling

<b>Advice on safe handling</b>	Wear personal protective equipment. Handle and open container with care. Avoid contact with skin and eyes.
<b>Advice on protection against fire and explosion</b>	Provide appropriate exhaust ventilation at places where dust is formed.

## 7.2 Conditions for safe storage, including any incompatibilities

<b>Storage class (TRGS 510)</b>	11: Combustible Solids
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## 7.3 Specific end use(s)

<b>Specific use(s)</b>	This information is not available.
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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

## COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

## National occupational exposure limits

No data available

## EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

## DERIVED NO EFFECT LEVEL (DNEL)

Substance name: 4-(1,1,3,3-Tetramethylbutyl)phenol			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects	33 mg/kg	based on body weight and day
	Inhalation, Acute/short-term exposure - systemic effects	2,4 mg/m3	
	dermal, Acute/short-term exposure - local effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / not applicable
	dermal, long-term exposure - systemic effects	11,3 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	0,8 mg/m3	
	dermal, long-term exposure - local effects		Not relevant / not applicable
	Inhalation, long-term exposure - local effects		Not relevant / not applicable
Consumers	dermal, Acute/short-term exposure - systemic effects	16,8 mg/kg	based on body weight and day
	Inhalation, Acute/short-term exposure -	1,8 mg/m3	

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	systemic effects		
	Oral, Acute/short-term exposure - systemic effects	0,5 mg/kg	based on body weight and day
	dermal, Acute/short-term exposure - local effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / not applicable
	dermal, long-term exposure - systemic effects	5,6 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	0,6 mg/m3	
	Oral, long-term exposure - systemic effects	0,1 mg/kg	based on body weight and day
	dermal, long-term exposure - local effects		Not relevant / not applicable
	Inhalation, long-term exposure - local effects		Not relevant / not applicable

## PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: 4-(1,1,3,3-Tetramethylbutyl)phenol		
Environmental Compartment	Value	Note
Fresh water	0,000632 mg/l	
Marine water	0,000632 mg/l	
intermittent release	0,000133 mg/l	
treatment plant	0,1 mg/l	
Fresh water sediment	4,62 mg/kg	based on dry weight
Marine sediment	1,23 mg/kg	based on dry weight
Soil	2,3 mg/kg	based on dry weight
food	2,36 mg/kg	

## 8.2 Exposure controls

## ENGINEERING MEASURES

If possible, use material transfer/filling, metering and blending plants that are closed.

## PERSONAL PROTECTIVE EQUIPMENT

## Respiratory protection

In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where dust, fibres and smoke occur, use self-contained breathing apparatus or breathing apparatus with a type P2 or P3 filter, in compliance with EN 143.

## Hand protection

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other., Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time., Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).

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**gloves suitable for permanent contact:**

Material: Nitrile rubber/nitrile latex  
 Break through time:  $\geq$  480 min  
 Layer thickness: 0,35 mm

Material: butyl-rubber  
 Break through time:  $\geq$  480 min  
 Layer thickness: 0,5 mm

**gloves suitable for splash protection:**

Material: Natural rubber/natural latex  
 Break through time:  $\geq$  60 min  
 Layer thickness: 0,5 mm

<b>Eye protection</b>	Tightly fitting safety goggles
<b>Skin and body protection</b>	Protective suit
<b>Hygiene measures</b>	Use barrier cream regularly. Provide adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.
<b>Protective measures</b>	Avoid contact with the skin and the eyes.

**ENVIRONMENTAL EXPOSURE CONTROLS**

<b>General advice</b>	Should not be released into the environment.
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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Physical state</b>	solid; 20 °C; 1.013 hPa
<b>Form</b>	flakes
<b>Colour</b>	white
<b>Odour</b>	mild
<b>Odour Threshold</b>	No valid method available
<b>pH</b>	No data available
<b>Melting point/range</b>	ca. 85 °C
<b>Boiling point/boiling range</b>	277 °C
<b>Flash point</b>	ca. 147 °C; DIN 51758
<b>Evaporation rate</b>	Not relevant / not applicable Justification: Solid
<b>Flammability (solid, gas)</b>	No data available
<b>Lower explosion limit</b>	Not relevant / not applicable Justification: Solid
<b>Upper explosion limit</b>	Not relevant / not applicable Justification: Solid

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Vapour pressure	< 0,01 hPa; 20 °C
Relative vapour density	> 1
Density	ca.0,95 g/cm <sup>3</sup> ; 20 °C
Bulk density	ca. 480 kg/m <sup>3</sup>
Water solubility	< 0,01 g/l; 20 °C
Partition coefficient: n-octanol/water	log Pow: 4,5
Ignition temperature	ca. 410 °C; DIN 51794
Viscosity, dynamic	ca. 7 mPas; 100 °C
Explosive properties	not expected based on structure and functional groups
Oxidizing properties	not expected based on structure and functional groups

**9.2 Other data**

Additional advice	During processing, dust may form explosive mixture in air.
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**SECTION 10: STABILITY AND REACTIVITY**

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**10.1 Reactivity**

Note	No dangerous reaction known under conditions of normal use.
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**10.2 Chemical stability**

Note	The product is chemically stable.
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**10.3 Possibility of hazardous reactions**

Hazardous reactions	No dangerous reaction known under conditions of normal use.
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**10.4 Conditions to avoid**

Conditions to avoid	Avoid dust formation.
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**10.5 Incompatible materials to avoid**

Materials to avoid	Strong acids;
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**10.6 Hazardous decomposition products**

Hazardous decomposition products	Stable under normal conditions.
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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**11.1 Information on toxicological effects****Acute toxicity**

Acute oral toxicity	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: LD50 Rat: > 2.000 mg/kg; OECD Test Guideline 401 Based on available data, the classification criteria are not met.
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<b>Acute inhalation toxicity</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: Study/Test not required Justification: Sufficient data are available from alternative routes of exposure.
<b>Acute dermal toxicity</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: LD50 Rabbit: > 2.000 mg/kg; OECD Test Guideline 402 (literature value) Based on available data, the classification criteria are not met.
<b>Skin corrosion/irritation</b>	
<b>Skin irritation</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: Rabbit: irritating; OECD Test Guideline 404 (literature value) Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	
<b>Eye irritation</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: Rabbit: Corrosive; OECD Test Guideline 405 (literature value) Causes serious eye damage.
<b>Respiratory or skin sensitisation</b>	
<b>Sensitisation</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406 Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	
<b>Genotoxicity in vitro</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: In vitro tests did not show mutagenic effects (literature value)
<b>Genotoxicity in vivo</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: The study is not necessary. Justification: In vitro tests did not show mutagenic effects
<b>Remarks</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	
<b>Carcinogenicity</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: The substance has been shown to be not genotoxic, therefore it is not expected to have a carcinogenic potential.
<b>Reproductive toxicity</b>	
<b>Reproductive toxicity</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: Two-generation reproductive toxicity: Rat; Oral; 224-day NOAEL ((parents)): 150 mg/kg (based on body weight and day) NOAEL (F1): 150 mg/kg (based on body weight and day) (literature value)
<b>Teratogenicity</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: Rat; Oral NOAEL: 300 mg/kg (based on body weight and day) NOAEL (pregnant female): 75 mg/kg (based on body weight and day); OECD Test Guideline 414 (literature value) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: nonylphenol

STOT - single exposure



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<b>Remarks</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: The substance or mixture is not classified as specific target organ toxicant, single exposure.
<b>STOT - repeated exposure</b>	
<b>Remarks</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
<b>Repeated dose toxicity</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: Rat; Oral; Subacute toxicity NOAEL: 15 mg/kg (based on body weight and day) LOAEL: 150 mg/kg (based on body weight and day); OECD Test Guideline 407 (literature value)  4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: Rat; Oral; Subchronic toxicity NOAEL: 24,9 mg/kg (based on body weight and day) LOAEL: 227,9 mg/kg (based on body weight and day); OECD Test Guideline 408 Symptoms: reduced body weight gain (literature value)
<b>Aspiration hazard</b>	
<b>Aspiration toxicity</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: Not applicable

## SECTION 12: ECOLOGICAL INFORMATION

## 12.1 Toxicity

<b>Toxicity to fish</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: LC50 (96 h) Oncorhynchus mykiss (rainbow trout): > 0,1 - 1 mg/l ; semi-static test; OECD Test Guideline 203 (literature value)  4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: LC50 (96 h) Marine species: > 0,1 - 1 mg/l (literature value)
<b>Toxicity to fish - Chronic toxicity</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: NOEC (151 d) Danio rerio (zebra fish): > 0,012 mg/l; reproduction rate; flow-through test; OECD Test Guideline 210 (literature value)
<b>Toxicity to daphnia and other aquatic invertebrates</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: EC50 (96 h) Gammarus pulex (Amphipod): > 0,01 - 0,1 mg/l ; semi-static test (literature value)  4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: LC50 (96 h) Americamysis bahia: > 0,01 - 0,1 mg/l (literature value)
<b>Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: NOEC (21 d) Daphnia magna (Water flea): 0,03 mg/l; reproduction rate; Fresh water; OECD Test Guideline 202, part 2; The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Phenol, (1,1,3,3-tetramethylbutyl)-  4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: NOEC (21 d) other aquatic crustacea: > 0,01 - 0,1 mg/l; mortality; Marine water; (literature value)

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<b>Toxicity to aquatic plants</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: EC50 (96 h) Pseudokirchneriella subcapitata (microalgae): > 1 - 10 mg/l ; cell number; static test; (literature value)
<b>Toxicity to bacteria</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: NOEC (40 d) : 100mg/kg; Soil (literature value) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: nonylphenol
<b>Toxicity to soil dwelling organisms</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: LC50 (14 d) Eisenia fetida (earthworms): 88,6 mg/kg; mortality (literature value) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: nonylphenol  4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: EC10 (28 d) other soil dwelling worm: 24 mg/kg; other; artificial soil (literature value) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: nonylphenol
<b>Toxicity to terrestrial flora</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: Growth; EC50 (7 d): 559 mg/kg; Lactuca sativa (lettuce); OECD Test Guideline 208 (literature value) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: nonylphenol
<b>Toxicity for other terrestrial non-mammalian fauna</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: reproduction rate; NOEC: 70,8 mg/kg food; 49 d; other birds Accumulation in terrestrial organisms is unlikely.
<b>12.2 Persistence and degradability</b>	
<b>Biodegradability</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: not readily biodegradable (10 day window not reached); > 60 %; 28 d; aerobic; OECD Test Guideline 301B (literature value)  4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: inherently biodegradable; < 60 %; 28 d; BODIS test The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Phenol, (1,1,3,3-tetramethylbutyl)-
<b>12.3 Bioaccumulative potential</b>	
<b>Bioaccumulation</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: Pimephales promelas (fathead minnow); 28 d; Bioconcentration factor (BCF): 740 Bioaccumulation is unlikely. Inherently biodegradable. The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: 4-nonylphenol, branched
<b>12.4 Mobility in soil</b>	
<b>Mobility</b>	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol: Medium: Sediment; Koc: 3500 - 18500 Slightly mobile in soils (literature value)
<b>12.5 Results of PBT and vPvB assessment</b>	

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**Results of PBT assessment** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Results of PBT assessment** 4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol:  
Based on available data, the classification criteria are not met.

**12.6 Other adverse effects**

**General advice** 4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol:  
Very toxic to aquatic life.  
Very toxic to aquatic life with long lasting effects.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

**Product** Can be incinerated, when in compliance with local regulations.

**waste code of the European Union: EWC** A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose. The waste code must be determined in agreement with the regional waste disposal authority or company.

**SECTION 14: TRANSPORT INFORMATION****14.1 UN number**

ADR	3077
RID	3077
ADN	3077
IMDG	3077
ICAO/IATA	3077

**14.2 Proper shipping name**

ADR	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4-tert-octylphenol)
RID	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4-tert-octylphenol)
ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4-tert-octylphenol)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4-tert-octylphenol)
ICAO/IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4-tert-octylphenol)

**14.3 Transport hazard class**

ADR	9
RID	9
ADN	9
IMDG	9
ICAO/IATA	9

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## 14.4 Packing group

ADR	III
RID	III
ADN	III
IMDG	III
ICAO/IATA	III

## 14.5 Environmental hazards

ADR	Environmentally hazardous	yes
RID	Environmentally hazardous	yes
ADN	Environmentally hazardous	yes
IMDG	Marine pollutant	yes
ICAO/IATA	Environmentally hazardous	yes

## 14.6 Special precautions for user

ADR	Hazard Identification Number	90
	Labels	9
	Tunnel restriction code	(-)
IMDG	Labels	9
	EmS Number 1	F-A
	EmS Number 2	S-F
ICAO/IATA	Labels	9MI

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

Remarks No information available.

## SECTION 15: REGULATORY INFORMATION

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

## EU REGULATIONS /INTERNATIONAL REGULATIONS

## EU SVHC: REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

Listed

The product contains following substances that are listed on the named regulation/list:

Substance name	CAS-No. EC-No.	content
4-(1,1,3,3-Tetramethylbutyl)phenol	140-66-9 205-426-2	<= 100 %

**Occupational restrictions** Employment restrictions for children and young workers in accordance with Directive 94/33/EC and the respective national provisions are to be observed.

## NATIONAL/OTHER REGULATIONS

**Legislation on the control of major-accident hazards involving dangerous** Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
list entry in the directive.: ENVIRONMENTAL HAZARDS; E1

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**substances** Qualifying quantity 1: 100 t; Qualifying quantity 2: 200 t;

**NOTIFICATION STATUS**

Switzerland. Consolidated Inventory	CH INV	listed (product or constituents are listed)
US. Toxic Substances Control Act	TSCA	listed (product or constituents are listed)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	listed (product or constituents are listed)
Japan. Kashin-Hou Law List	ENCS (JP)	listed (product or constituents are listed)
Japan. Industrial Safety & Health Law (ISHL) List	ISHL (JP)	listed (product or constituents are listed)
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances (IECSC)	INV (CN)	listed (product or constituents are listed)

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

**15.2 Chemical safety assessment****4-(1,1,3,3-Tetramethylbutyl)phenol**

A Chemical Safety Assessment has been carried out for this substance.

**SECTION 16: OTHER INFORMATION****Full text of H-Statements referred to under sections 2 and 3.**

H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**Safety datasheet sections which have been updated:**

12. Ecological information

**Further information:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or

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quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.  
This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
AICS	Australian Inventory of Chemical Substances
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials (US)
BCF	Bioconcentration factor
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
DIN	Deutsches Institut für Normung
DNEL	Derived No-Effect Level
DSL	Domestic Substances List
EC...	Effect concentration ... %
ENCs	Existing Notified Chemical Substances (Japan)
EWC	European Waste Catalogue
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISHL	Industrial Safety and Health Law (Japan)
ISO	International Organization for Standardization
IUAPC	International Union of Pure and Applied Chemistry
KECI	Korea Existing Chemicals Inventory
LC...	Lethal Concentration, ...%
LD...	Lethal Dose, ...%
MARPOL	International Convention for the Prevention of Pollution From Ships
NDSL	Non-Domestic Substances List
NOAEL	no observable adverse effect level
NOEL/NOEC	No Observed-effect level/concentration
NZIoC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bioaccumulative, toxic
PICCS	Philippine Inventory of Chemicals and Chemical Substances
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport international ferroviaire de marchandises dangereuses
TG	Test Guideline
TRGS	Technische Regeln für Gefahrstoffe
TSCA	Toxic Substances Control Act
vPvB	very persistent, very bioaccumulative
WGK	Wassergefährdungsklasse

## Annex

Attachments to the safety data sheet and/or lists of the identified uses for the listed substances can be downloaded using the internet links below.

## 4-(1,1,3,3-Tetramethylbutyl)phenol

[http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/00000000185\\_EN\\_01.pdf](http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/00000000185_EN_01.pdf)