

#### Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 22 Nov 2024

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

#### 1.1. Product name:

4-tert-Octylphenol

#### 1.1. Catalog No.:

675915

# 1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical uses: R&D

#### 1.3. Uses advised against:

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#### 1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36 This number is only available during office hours.

#### 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Skin irritation (Category 2), H315 Serious eye damage (Category 1), H318 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410 Classification according to EU Directives 67/548/EEC or 1999/45/EC Xi, N Irritant, Dangerous for the environment R38, R41, R50/53

#### 2.2. Label elements

## 2.2.1. Pictogram





Signal word Danger Hazard statement(s) H315 Causes skin irritation. H318 Causes serious eye damage. H410 Very toxic to aquatic life with long lasting effects. Precautionary statement(s) P273 Avoid release to the environment. P280 Wear protective gloves/ eye protection/ face protection. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/ container to an approved waste disposal plant. Supplemental Hazard Statements none 2.3 Other hazards - none

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Synonyms : 4-(1,1,3,3-Tetramethylbutyl)phenol Formula : C14H22O Molecular Weight : 206,32 g/mol CAS-No. : 140-66-9 EC-No. : 205-426-2 Indox No. : 604-075-00-6 Index-No. : 604-075-00-6 Hazardous ingredients according to Regulation (EC) No 1272/2008 Component Classification Concentration 4-(1,1,3,3-Tetramethylbutyl)phenol Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH) CAS-No. EC-No. Index-No. 140-66-9 205-426-2 604-075-00-6 Skin Irrit. 2; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1; H315, H318, H410 <= 100 % Hazardous ingredients according to Directive 1999/45/EC
 Component Classification Concentration
 4-(1,1,3,3-Tetramethylbutyl)phenol Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH) CAS-No. EC-No. Index-No. 140-66-9 205-426-2 604-075-00-6 Xi, N, R38 - R41 - R50/53 <= 100 %

3.1.1. Formula

C14H22O



#### 3.1.2. Molecular Weight (g/mol)

206.32

## 3.1.3. CAS-No.

140-66-9

#### 4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance. If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed no data available

#### 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. 5.2 Special hazards arising from the substance or mixture Carbon oxides 5.3 Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary. 5.4 Further information no data available

#### 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure



adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8. 6.2 Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. 6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

#### 7. HANDLING AND STORAGE

7.1 Precautions for safe handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.



#### 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
a) Appearance Form: flakes
Colour: white
b) Odour phenol-like
c) Odour Threshold no data available
d) pH no data available
e) Melting point/freezing
point
Melting point/range: 79 - 82 °C - lit.
f) Initial boiling point and
boiling range
175 °C at 40 hPa - lit.
g) Flash point no data available
h) Evapouration rate no data available
i) Flash point no data available
h) Evapouration rate no data available
j) Upper/lower
flammability (solid, gas) no data available
j) Upper/lower
flammability or
explosive limits
no data available
k) Vapour pressure 0,02 hPa at 38 °C
l) Vapour density no data available
m) Relative density no data available
m) Relative density no data available
n) Water solubility 0,007 g/l at 20 °C - slightly soluble
o) Partition coefficient: noctanol/
water
log Pow: 4,8 at 22 °C
p) Auto-ignition no data available temperature
q) Decomposition
temperature
no data available
f) Viscosity no data available
s) Explosive properties no data available
g) Explosive properties no data available
g) Cher safety information
Bulk density 370 kg/m3 at 22 °C

## **10. STABILITY AND REACTIVITY**

10.1 Reactivity
no data available
10.2 Chemical stability
Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions
no data available
10.4 Conditions to avoid
no data available
10.5 Incompatible materials
Strong oxidizing agents
10.6 Hazardous decomposition products
Other decomposition products - no data available
In the event of fire: see section 5

#### **11. TOXICOLOGICAL INFORMATION**

11.1 Information on toxicological effects Acute toxicity LD50 Oral - rat - male and female - > 2.000 mg/kg (OECD Test Guideline 401) Skin corrosion/irritation



Skin - rabbit Result: Irritating to skin. - 4 h (OECD Test Guideline 404) Serious eye damage/eye irritation Eyes - rabbit Result: Risk of serious damage to eyes. - 1 h (OECD Test Guideline 405) Respiratory or skin sensitisation - guinea pig Result: Does not cause skin sensitisation. (OECD Test Guideline 406) Germ cell mutagenicity Hamster ovary Result: negative Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Reproductive toxicity no data available Specific target organ toxicity - single exposure no data available Specific target organ toxicity - repeated exposure no data available Aspiration hazard no data available Additional Information Repeated dose toxicity - rat - male and female - Oral - No observed adverse effect level - 15 mg/kg -Lowest observed adverse effect level - 150 mg/kg RTECS: SM9625000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### 12. ECOLOGICAL INFORMATION

12.1 Toxicity Toxicity to fish static test LC50 - Fundulus heteroclitus - 0,293 mg/l - 96 h Toxicity to algae static test EC50 - Selenastrum capricornutum (green algae) - 1,9 mg/l - 96 h 12.2 Persistence and degradability Biodegradability aerobic - Exposure time 28 d Result: 0 % - Not readily biodegradable. 12.3 Bioaccumulative potential Bioaccumulation Oryzias latipes - 48 h - 0,0047 mg/l Bioconcentration factor (BCF): 261 (OECD Test Guideline 305) 12.4 Mobility in soil no data available 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted 12.6 Other adverse effects Very toxic to aquatic life with long lasting effects

#### 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Contaminated packaging
Dispose of as unused product



### 14. TRANSPORT INFORMATION

14.1 UN number ADR/RID: 3077 IMDG: 3077 IATA: 3077 14.2 UN proper shipping name ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4-(1,1,3,3- Tetramethylbutyl)phenol) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4-(1,1,3,3-Tetramethylbutyl)phenol) IATA: Environmentally hazardous substance, solid, n.o.s. (4-(1,1,3,3-Tetramethylbutyl)phenol) 14.3 Transport hazard class(es) ADR/RID: 9 IMDG: 9 IATA: 9 14.4 Packaging group ADR/RID: III IMDG: III IATA: III 14.5 Environmental hazards ADR/RID: yes IMDG Marine pollutant: yes IATA: yes 14.6 Special precautions for user Further information EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids

#### **15. REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Authorisations and/or restrictions on use 4-(1,1,3,3-Tetramethylbutyl)phenol CAS-No.: 140-66-9 Candidate List of Substances of Very High Concern for Authorisation 15.2 Chemical Safety Assessment For this product a chemical safety assessment was not carried out

#### **16. OTHER INFORMATION**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!