

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 16 Aug 2022

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

#### 1.1. Product name:

4-Chlorophenol

# 1.1. Catalog No.:

673138

#### 1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical uses: R&D

uses:

### 1.3. Uses advised against:

HPC Standards GmbH Am Wieseneck 7

04451 Cunnersdorf Deutschland

Tel. +49 34291 3372-36 Fax. +49 34291 3372-39 contact@hpc-standards.com

### 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
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 4), H332
Acute toxicity, Dermal (Category 4), H312
Chronic aquatic toxicity (Category 2), H411
For the full text of the H-Statements mentioned in this Section, see Section 16.
Classification according to EU Directives 67/548/EEC or 1999/45/EC
Xn Harmful R20/21/22
N Dangerous for the
environment environment R51/53

### 2.2. Label elements

### 2.2.1. Pictogram







#### 2.2.2.

Signal word Warning
Hazard statement(s)
H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled
H411 Toxic to aquatic life with long lasting effects.
Precautionary statement(s)
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing.
Supplemental Hazard
Statements
none
2.3 Other hazards
Stench.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances S. I Substances
Formula: C6H5ClO
Molecular Weight: 128,56 g/mol
CAS-No.: 106-48-9
EC-No.: 203-402-6
Index-No.: 604-008-00-0 Hazardous ingredients according to Regulation (EC) No 1272/2008 Component Classification Concentration 4-Chlorophenol CAS-No. EC-No. Index-No. 106-48-9 203-402-6 604-008-00-0 Acute Tox. 4; Aquatic Chronic 2; H302 + H312 + H332, H411 &lt:= 100 % Phenol CAS-No. EC-No. Index-No. Index-No.
108-95-2
203-632-7
604-001-00-2
Acute Tox. 3; Skin Corr. 1B;
Muta. 2; STOT RE 2; Aquatic
Chronic 3; H301 + H311 +
H331, H314, H341, H373,
H412
< 1 %
Hazardous ingredients according to Directive 1999/45/EC
Component Classification Concentration
4-Chlorophenol
CAS-No.
EC-No.
Index-No.
106-48-9
203-402-6
604-008-00-0 604-008-00-0 Xn, N, R20/21/22 - R51/53 <= 100 % Phenol CAS-No. EC-No. Index-No. 108-95-2 203-632-7 604-001-00-2 T, Mut.Cat.3, R23/24/25 - R34 - R48/20/21/22 - R68 < 1 %



#### 3.1.1. Formula

C6H5CIO

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

128.56

### 3.1.3. CAS-No.

106-48-9

### 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
Flush eyes with water as a precaution.
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, Hydrogen chloride gas

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. 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.

Store under inert gas. Stench.

7.3 Specific end use(s)

A part 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

Safety glasses with side-shields conforming to EN166 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 the proper glove after use in accordance with applicable laws and good laboratory practices. contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**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

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. 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: solid
b) Odour Stench.
c) Odour Threshold no data available

d) pH no data available e) Melting point/freezing

no data available

f) Initial boiling point and

boiling point and boiling point and boiling range 220 °C - lit.
g) Flash point 121 °C - closed cup h) Evapouration rate no data available i) Flammability (solid, gas) no data available

j) Upper/lower flammability or explosive limits no data available

no data available k) Vapour pressure 1 hPa at 49,8 °C l) Vapour density no data available m) Relative density 1,306 g/mL at 25 °C n) Water solubility no data available o) Partition coefficient: noctanol/

water

log Pow: 2,39log Pow: 5 p) Auto-ignition temperature no data available q) Decomposition temperature no data available

r) Viscosity no data available s) Explosive properties no data available t) Oxidizing properties no data available 9.2 Other safety information

no data available

# 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
Acid chlorides, Acid anhydrides, 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 - 670 mg/kg LC50 Inhalation - rat - 11 mg/m3



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LD50 Dermal - rat - 1.500 mg/kg Remarks: Behavioral:Muscle contraction or spasticity. Extremely corrosive and destructive to tissue.

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

rat

Cytogenetic analysis
Carcinogenicity
IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Phenol)
Reproductive toxicity

Reproductive toxicity - mouse - Inhalation

Paternal Effects: Spermatogenesis (including genetic material, sperm morphology,motility, and count). Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Embryo or Fetus: Fetal death.

Specific target organ toxicity - single exposure no data available
Specific target organ toxicity - repeated exposure no data available
Assistant based

Aspiration hazard no data available Additional Information RTECS: SK2800000 Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and akin Cough Shortness of breath Headache. Nausea

#### 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish mortality NOEC - Cyprinodon variegatus (sheepshead minnow) - 3,2 mg/l -

96,0 h

LC50 - Lepomis macrochirus (Bluegill) - 3,1 - 4,8 mg/l - 96,0 h

Toxicity to daphnia and

other aquatic

invertebrates

invertebrates
mortality NOEC - Daphnia - 0,2 mg/l - 8 d
EC50 - Daphnia magna (Water flea) - 2,8 - 8,6 mg/l - 24 h
12.2 Persistence and degradability
12.3 Bioaccumulative potential
Bioaccumulation Cyprinus carpio (Carp) - 42 d
- 4 & amp;#956;g/l
Bioconcentration factor (BCF): 11 - 52
Cyprinus carpio (Carp) - 42 d
- 40 & amp;#956;g/l
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

12.6 Other adverse effects

Toxic to aquatic life.

# 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: 2020 IMDG: 2020 IATA: 2020
14.2 UN proper shipping name
ADR/RID: CHLOROPHENOLS, SOLID
IMDG: CHLOROPHENOLS, SOLID
IATA: Chlorophenols, solid
14.3 Transport hazard class(es)
ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1
14.4 Packaging group
ADR/RID: III IMDG: III IATA: III
14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no
14.6 Special precautions for user
no data available

# 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 no data available 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!