

MATERIAL SAFETY DATA SHEET

Chemical Product

Product Name: 4-Chlororesorcinol
 CAS#: 95-88-5
 Synonym: 1,3-Dihydroxy-4-chlorobenzene
 Chemical Name: Not Available.
 Chemical Formula: C₆H₅ClO₂

Composition and Information on Ingredients

Name	S.K.U	% by Weight
4-Chlororesorcinol	GCS-2270	100

Hazards Identification

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 Skin irritation(Category 2),
 H315
 Eye irritation(Category 2), H319
 Specific target organ toxicity -single exposure(Category 3), Respiratory system, H335.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xn Harmful R20/21/22, R36/37/38

Label elements

Labelling according Regulation (EC)
 No 1272/2008 Hazard statement(s):
 H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled H315 Causes skin irritation.
 H319 Causes serious eye irritation. H335
 May cause respiratory irritation.

Precautionary statement(s):

P261 Avoid breathing dust.

P280 Wear protective gloves/ protective clothing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements: None.

Other hazards:

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.

First Aid Measures

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.

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

Indication of any immediate medical attention and special treatment needed:

No data available.

Fire and Explosion Data

Extinguishing media

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture:

Carbon oxides, Hydrogen chloride gas.

Advice for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

Further information: No data available.

Accidental Release Measures

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.

Environmental precautions:

Do not let product enter drains.

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.

Handling and Storage

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.

Conditions for safe storage, including any incompatibilities:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non Combustible Solids.

Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Exposure Controls/Personal Protection

Control parameters

Components with workplace control parameters

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 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:

Do not let product enter drains.

Physical and Chemical Properties

**Information on basic physical and
chemical properties Appearance Form :
Powder.**

Colour	: Grey.
Odour	: No data available.
Odour Threshold	: No data available.
Ph	: No data available.
Melting point	: 106 -108 °C-lit.
Molecular weight	: 144,56 g/mole.
Initial boiling point	: 147 °C At 24 hPa-lit.
Flash point	: No data available.
Evaporation rate	: No data available.
Flammability (solid, gas) :	
No data available.	

Explosive limits	: No data available.
Vapour pressure	: No data available.
Vapour density	: No data available.
Relative density	: No data available.
Water solubility	:
No data available. Partition coefficient:	
n-octanol/water: No data available.	
Auto-ignition temperature	:
No data available.	
Decomposition	: No data available.
Viscosity	: No data available.
Explosive properties	: No data available.
Oxidizing properties	: No data available.

Stability and Reactivity Data

Reactivity

Reactivity : No Data Available.

Chemical stability

Chemical stability: Stable under recommended storage conditions.

Possibility of
hazardous reactions
Hazardous reactions:
No Data Available.

Conditions to avoid

Conditions to avoid: No data available.

Incompatible materials

Materials to avoid: Acid chlorides, Acid anhydrides, Oxidizing agents.

Hazardous decomposition products

Other decomposition products: No data available.

Toxicological Information

Information on
toxicological
effects

Acute toxicity:

LD50 Oral-Rat-369 mg/kg

Remarks: Behavioral: Somnolence (general depressed activity). Behavioral: Ataxia. Skin and Appendages: Other: Hair.

Skin corrosion/irritation

Serious eye damage/eye irritation
Eyes-Rabbit

Respiratory or skin sensitization: No data available.

Germ cell mutagenicity: No data available.

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 Inhalation:
May cause respiratory
irritation.

Specific target organ toxicity Repeated exposure: No data available.

Aspiration hazard: No data available.

Additional Information:

RTECS: VH0450000

Depending on the intensity and duration of exposure, effects may vary from mild irritation to severe destruction of tissue., prolonged or repeated exposure can cause:, Damage to the eyes., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Ecological Information

Toxicity

Toxicity to fish: LC50-Poecilia reticulata (guppy)-1.388 mg/l-24 h

Toxicity to daphnia and other aquatic invertebrates: LC50-Daphnia pulex (Water flea)-1 mg/l-96 h.

Persistence - degradability

Persistence - degradability: No Data Available.

Bioaccumulative potential

Bioaccumulative potential: No Data Available.

Mobility in soil

Mobility in soil: No Data Available.

Results of PBT and vPvB 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.

Other adverse effects

Environmental precautions: No Data Available.

Disposal Considerations

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.

Transformation Information

Land transport (ADR-RID)

General information: Not regulated.

Sea transport (IMDG) [English only]

General information: Not regulated.

Air transport (ICAO-IATA) [English only]

General information: Not regulated.

Other Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture: No data available.

Chemical Safety Assessment:

For this product a chemical safety assessment was not carried out.



Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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