



SAFETY DATA SHEET

CHLOROCRESOL

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME: CHLOROCRESOL

PRODUCT NO: RM072

SYNONYMS, TRADE NAMES: 4-CHLORO-m-CRESOL, 4-CHLORO-3-METHYLPHENOL

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2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008):

Acute toxicity, Category 4, Dermal, H312

Acute toxicity, Category 4, Oral, H302

Serious eye damage, Category 1, H318

Skin sensitization, Category 1, H317

Acute aquatic toxicity, Category 1, H400

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

Classification (67/548/EEC or 1999/45/EC)

Xn Harmful R21/22

Xi Irritant R41

R43

N Dangerous for the environment R50

For the full text of the R-Phrases mentioned in this Section, see Section 16

Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard Pictograms:



Signal Word:	Danger	
Hazard Statements:	H312	Harmful in contact with skin
	H302	Harmful if swallowed
	H318	Causes serious eye damage
	H317	May cause an allergic skin reaction
	H400	Very toxic to aquatic life
Precautionary Statements:	P280	Wear protective gloves/eye protection/face protection
	P273	Avoid release to the environment
	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.
	P313	Get medical advice/attention

Reduced labelling (≤ 125 ml)



Hazard Pictograms:




Signal Word:	Danger	
Hazard Statements:	H318	Causes serious eye damage
	H317	May cause an allergic skin reaction
Precautionary Statements:	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.
	P313	Get medical advice/attention

Index-No. 604-014-00-3

Labelling (67/548/EEC or 1999/45/EC)

Symbol(s):		Xn	Harmful
		N	Dangerous for the environment
R-Phrase(s):	21/22-41-43-50		Harmful in contact with skin and if swallowed. Risk of serious damage to eyes. May cause Sensitization by skin contact. Very toxic to aquatic organisms.
S-Phrase(s):	26-36/37/39-61		In case of contact with eyes, rinse immediately with Plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. Avoid release to the environment. Refer to special instructions/Safety Data Sheets.
EC-No:	200-431-6		EC Label

Reduced labelling (≤ 125 ml)

Symbol(s):		Xn	Harmful
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N

Dangerous for the environment

R-Phrase(s):

21/22-41-43-50

Harmful in contact with skin and if swallowed.
Risk of serious damage to eyes. May cause
Sensitization by skin contact. Very toxic to aquatic
organisms.

S-Phrase(s):

26-36/37/39-61

In case of contact with eyes, rinse immediately with
Plenty of water and seek medical advice. Wear
suitable protective clothing, gloves and eye/face
protection.

Other Hazards

None known

3 COMPOSITION/INFORMATION ON INGREDIENTS

Formula: 4-(Cl)-3-(CH₃)C₆H₃OH C₇H₇ClO(Hill)
 CAS-No: 59-50-7
 Index-No: 604-014-00-3
 EC-No: 200-431-6
 Molar Mass: 142,58 g/mol

Hazard components (REGULATION (EC) No 1272/2008)

Chemical Name (Concentration)

CAS-No	EC-No./ Registration number	Index No	Classification
Chlorocresol (<= 100%) 59-50-7	200-431-6/*	604-014-00-3	Acute toxicity, Category 4, H312 Acute toxicity, Category 4, H302 Serious eye damage, Category 1, H318 Skin sensitization, Category 1, H317 Acute aquatic toxicity, Category 1, H400

* A registration number is not available for this substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

Hazardous components (1999/45/EC)

Chemical Name (Concentration)

CAS-No	EC-No./	Index No	Classification
Chlorocresol (<= 100%) 59-50-7	200-431-6	604-014-00-3	Xn, Harmful; R21/22 Xi, Irritant; R41 R43 N, Dangerous for the environment; R50

For the full text of the R-Phrases mentioned in this Section, see Section 16

4 FIRST-AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

AFTER INHALATION

Fresh air.

AFTER SKIN CONTACT

Wash off with plenty of water. Remove contaminated clothing. Consult a physician.

AFTER EYE CONTACT

Rinse out with plenty of water. Immediately call an ophthalmologist.

AFTER SWALLOWING

Immediately make victim drink water (two glasses at most). Consult a physician.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Irritant effects, Allergic reactions, Shortness of breath, Drowsiness, Dizziness, Unconsciousness, Nausea, Headache.

The following applies to phenols in general: irritant or even caustic effect upon contact with skin or mucous membranes.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No information available.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA

Water, Carbon dioxide (CO₂), Foam, Dry powder.

UNSUITABLE EXTINGUISHING MEDIA

For this substance/mixture no limitations of extinguishing agents are given.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Combustible material. Vapours are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire. Fire may cause evolution of: Hydrogen chloride gas.

ADVICE FOR FIRE FIGHTERS

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

FURTHER INFORMATION

Prevent fire extinguishing water from contaminating surface water or the ground water system. Suppress (knock down) gases/vapours/mists with a water spray jet.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Advice for non-emergency personnel: Avoid substance contact. Avoid inhalation of dusts. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see Section 8.

ENVIRONMENTAL PRECAUTIONS

Do not empty into drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see Sections 7.2 and 10.5).

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

REFERENCE TO OTHER SECTIONS

Indications about waste treatment see Section 13.

7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Observe label precautions.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons. Store at +15°C to +25°C.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS**EXPOSURE CONTROLS****ENGINEERING MEASURES**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See Section 7.1.

INDIVIDUAL PROTECTION MEASURES

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

HYGIENE MEASURES

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

EYE/FACE PROTECTION

Tightly fitting safety goggles.

HAND PROTECTION

Full contact:	Glove material	Nitrile rubber
	Glove thickness	0,11 mm
	Break through time	> 480 min
Splash contact:	Glove material	Nitrile rubber
	Glove thickness	0,11 mm
	Break through time	> 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact). The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the products stated in the Safety Data Sheet <(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet www.kcl.de).

OTHER PROTECTIVE EQUIPMENT

Protective clothing.

RESPIRATORY PROTECTION

Required when dusts are generated. Recommended Filter type: Filter A-(P2). The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

ENVIRONMENTAL EXPOSURE CONTROLS

Do not empty into drains.

9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form: Powder, finecrystalline

Colour:	Light yellow
Odour:	Phenol-like
Odour Threshold:	No information available
pH:	6,5 at 1 g/l 20°C
Melting Point:	63 – 65°C
Boiling Point/Boiling Range:	235 – 239°C at 1.013 hPa
Flash Point:	ca. 118 °C Method: DIN 51758
Evaporation Rate:	No information available
Flammability (Solid, Gas):	No information available
Lower Explosion Limit:	No information available
Upper Explosion Limit:	No information available
Vapour Pressure:	< 0,1 hPa at 20°C 7 hPa at 100°C
Relative Density:	1,37 g/cm ³ at 20°C
Relative Vapour Density:	No information available
Water Solubility:	3,9 g/l at 20°C
Partition coefficient n-octanol/ water:	log Pow: 3,02 (experimental) (Lit) A remarkable bioaccumulation potential is expected (log Po/w >3).
Autoignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity, dynamic:	No information available
Explosive Properties:	Not classified als explosive
Oxidizing Properties:	None
<u>Other Data</u>	
Ignition Temperature:	ca. 590 °C Method: DIN 51794
Bulk Density:	800 kg/m ³

10 STABILITY AND REACTIVITY

REACTIVITY

Forms explosive mixtures with air on intense heating. The following applies in general to flammable organic substances and preparations: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

CHEMICAL STABILITY

The product is chemically stable under standard ambient conditions (room temperature).

POSSIBILITY OF HAZARDOUS REACTIONS

Violent reactions possible with: Oxidizing agents, Acid anhydrides, Acid halides, Bases.

CONDITIONS TO AVOID

Strong heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

INCOMPATIBLE MATERIALS

Copper, Copper alloys, Brass, Mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS

In the event of fire: see Chapter 5.

11 TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE ORAL TOXICITY

LD50 rat: 1.830 mg/kg (RTECS)

Symptoms: Nausea

Absorption

ACUTE INHALATION TOXICITY

LC50 rat: > 704 mg/m³; 4h (IUCLID)

Symptoms: Possible damages: Lung, oedema, mucosal irritations

ACUTE DERMAL TOXICITY

LD50 rat: >2.000 mg/kg (IUCLID) (Regulation (EC) No 1272/2008, Annex VI)

Absorption

EYE IRRITATION

Causes serious eye damage

SENSITISATION

May cause an allergic skin reaction

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE

The substance or mixture is not classified as specific target organ toxicant, single exposure.

SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

ASPIRATION HAZARD

Based on available data the classification criteria are not met.

FURTHER INFORMATION

After absorption: Body weight change, Drowsiness, Headache, Shortness of breath, Unconsciousness, Dizziness.

Damage to: Liver, Kidney, Central nervous system.

OTHER INFORMATION

The following applies to phenols in general: irritant or even caustic effect upon contact with skin or mucous membranes.

FURTHER DATA

Handle in accordance with good industrial hygiene and safety practice.

12 ECOLOGICAL INFORMATION

TOXICITY

TOXICITY TO FISH

LC50 *Oncorhynchus mykiss* (rainbow trout): 0,9 mg/l; 96h (External SDS)

TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES

EC50 *Daphnia magna* (Water flea) : 2 mg/l; 48 h (IUCLID)

TOXICITY TO ALGAE

IC50 *Desmodesmus subspicatus* (green algae): 4,2 mg/l; 72 h (IUCLID)

TOXICITY TO BACTERIA

EC50 activated sludge: 60 mg/l; 3 h (IUCLID)

PERSISTENCE AND DEGRADABILITY

BIODEGRADABILITY

84%; 28 d

OECD Test Guideline 301D

Readily biodegradable

Theoretical oxygen demand (ThOD)

1.852 mg/g

Ratio COD/ThBOD

100%

BIOACCUMULATIVE POTENTIAL*Partition coefficient: n-octanol/water*

log Pow: 3,02

(Experimental)

(Lit.) A remarkable bioaccumulation potential is expected (log Po/w >3).

MOBILITY IN SOIL

No information available.

RESULTS OF PBT AND VPVB ASSESSMENT

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

OTHER ADVERSE EFFECTS**ADDITIONAL ECOLOGICAL INFORMATION**

Discharge into the environment must be avoided.

13 DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODSSee www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further queries.

14 TRANSPORT INFORMATION

ADR/RID

UN 3437 CHLOROCRESOLS, SOLID, 6.1, II

Environmentally hazardous yes

IATA

UN 3437 CHLOROCRESOLS, SOLID, 6.1, II

Environmentally hazardous yes

IMDG

UN 3437 CHLOROCRESOLS, SOLID, 6.1, II

EmS F-A S-A

Marine pollutant yes

The transport regulations ADR/RID, IATA – DGR, IMDG – Code are cited according to international regulations and in the form applicable in Germany. Possible national deviations in other countries are not considered.

15 REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE*EU Regulations*

Major Accident Hazard 96/82/EC

Legislation Dangerous for the environment

9a

Quantity 1: 100 t

Quantity 2: 200 t

OCCUPATIONAL RESTRICTIONS

Take note of Dir 94/33/EC on the protection of young people at work. Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.

National Legislation

Storage Class 6.1A

CHEMICAL SAFETY ASSESSMENT

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

16 OTHER INFORMATION

Full text of H-Statements referred to under Sections 2 and 3

H302	Harmful if swallowed
H312	Harmful in contact with skin
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H400	Very toxic to aquatic life

Full text of R-Phrases referred to under Sections 2 and 3

R21/22	Harmful in contact with skin and if swallowed
R41	Risk of serious damage to eyes
R43	May cause sensitization by skin contact
R50	Very toxic to aquatic organisms

TRAINING ADVICE

Provide adequate information, instruction and training for operators

KEY OR LEGEND TO ABBREVIATIONS AND ACRONYMS USED IN THE SAFETY DATA SHEET

Used abbreviations and acronyms can be looked up at www.wikipedia.org

REGIONAL REPRESENTATION

This information is given on the authorised Safety Data Sheet for your country.

DISCLAIMER

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