

Safety Data Sheet

#89968253 · Full 16-section SDS

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

PRODUCT	CAS NUMBER	FORMULA	VERSION	REVISION DATE
4-Chlorobenzoic acid	74-11-3	C1C6H4COOH	10	14 Aug 2026

SECTION 1

Identification

Product name	4-Chlorobenzoic acid
CAS number	74-11-3
Chemical formula	C1C6H4COOH
Molecular weight	156.57
SMILES	<chem>C1=CC(=CC=C1C(=O)O)Cl</chem>
EC / EINECS number	200-805-9
Recommended use & restrictions	For research use only. Not for human or veterinary use.
Emergency telephone	0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification



WARNING

CODE	HAZARD STATEMENT
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
CODE	PRECAUTIONARY STATEMENT
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+P352	IF ON SKIN: Wash with soap and water
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing
Other hazards (e.g. PBT / vPvB, not classified)	This substance is not classified as PBT or vPvB according to current EU criteria. Does not contain components considered to have endocrine-disrupting properties

SECTION 3

Composition / information on ingredients

Purity / concentration	c. 100% 4-Chlorobenzoic acid (CAS: 74-11-3)- H302, H315, H319, H335
Impurities / stabilising additives	None.

SECTION 4

First-aid measures

Inhalation	Move to fresh air, keep warm and at rest, maintain airway, assist with oxygen if needed, get medical attention.
Skin contact	Rinse with water.
Eye contact	Rinse with water, do not rub, remove contact lenses, get medical attention if discomfort persists.
Ingestion	Rinse mouth, give small amounts of water or milk, do not induce vomiting, get medical attention if symptoms persist.
Symptoms / effects & medical attention	See Section 11.

SECTION 5

Fire-fighting measures

Suitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given.
Unsuitable extinguishing media	None known
Special hazards	Carbon oxides Hydrogen chloride gas Combustible. 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
Advice for firefighters	Wear positive-pressure self-contained breathing apparatus and full protective clothing.

SECTION 6

Accidental release measures

Personal precautions & PPE	Wear protective clothing, avoid dust inhalation, use respiratory protection if ventilation is inadequate.
Environmental precautions	Avoid discharge into drains, watercourses or onto the ground.
Containment & clean-up methods	Collect spillage with shovel and broom, place in suitable containers, flush area with water.

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

Storage temperature Ambient

Precautions for safe handling

Observe good chemical hygiene practices. Keep away from food, drink and animal feeding stuffs.

Wash contaminated skin thoroughly after handling. Do not eat, drink or smoke when using this product.

Remove contaminated clothing and launder thoroughly before re-use.

Wear protective clothing, gloves, eye and face protection. Avoid contact with skin and eyes.

Do not breathe dust/fume/gas/mist/vapours/spray.

Conditions for safe storage (incompatibilities)

Store locked up, in original container, in a cool, well-ventilated place, keep upright.

Storage class: 11

SECTION 8

Exposure controls / personal protection

Occupational exposure limits (OEL / WEL) *Not applicable*

DNEC/PNEC data *Not applicable*

Eye / face protection

Safety glasses

Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.

Skin / hand protection

Nitrile gloves Thickness: 0.11mm. Breakthrough time: 480mins.

Respiratory protection

Dust mask (FFP2/FFP3)

Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387.

SECTION 9

Physical & chemical properties

Density (g/mL)	1.541 g/mL DERIVED FROM: LITERATURE
Flash point	238 °C DERIVED FROM: LITERATURE
Acidity	Acid DERIVED FROM: LITERATURE
Appearance / physical state	Powder DERIVED FROM: LITERATURE
Colour	Yellow-white DERIVED FROM: LITERATURE
Odour	Odourless DERIVED FROM: LITERATURE
Melting / freezing point	237 - 243°C DERIVED FROM: LITERATURE
Boiling point	274 - 276°C DERIVED FROM: LITERATURE
Solubility (water)	0.08 g/l @20°C DERIVED FROM: LITERATURE
pH	4.3 (0.08g/l aq. at 20°C) DERIVED FROM: LITERATURE
Vapour pressure	<i>Not applicable</i>
Partition coefficient (log Pow)	2.65 DERIVED FROM: LITERATURE
Auto-ignition / decomposition temp	Decomposition Temperature > 545°C DERIVED FROM: LITERATURE

SECTION 10

Stability & reactivity

Chemical stability / reactivity	Stable under normal conditions.
Conditions to avoid	None known.
Incompatible materials	Strong oxidising agents. Strong acids. Strong bases
Hazardous decomposition products	See section 5

SECTION 11

Toxicological information

Acute toxicity (LD50 / LC50)	Information on hazard classes as defined in Regulation (EC) No 1272/2008 LD50 Oral - Rat - 1,170 mg/kg Ref: Journal of Agricultural and Food Chemistry., 21(794), 1973 [PMID:4733370].
Skin corrosion / irritation	Causes skin irritation
Eye corrosion / irritation	Causes eye irritation.
Respiratory / skin sensitisation	Not classified
Carcinogenicity	Not classified
Mutagenicity	Not classified
Reproductive toxicity	Not classified
STOT (single / repeated exposure)	May cause respiratory irritation.
Aspiration hazard	Not classified
Endocrine disruptors	Not classified

SECTION 12

Ecological information

Aquatic toxicity	EC50 (Daphnia magna (Water flea)): > 20 mg/l - 24 h Ref: External SDS
Persistence & degradability	<i>Not applicable</i>
Bioaccumulative potential	<i>Not applicable</i>
Mobility in soil	<i>Not applicable</i>
PBT / vPvB assessment	<i>Not applicable</i>

SECTION 13

Disposal considerations

Waste treatment / disposal methods	Dispose of contents/container in accordance with national regulations.
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SECTION 14

Transport information

UN number	Not applicable
Proper shipping name	Not applicable
Class	Not applicable
Packing group	Not applicable
Transport category	Not applicable
Tunnel code	Not applicable
Packing instruction (ADR)	Not applicable
Packing instruction (IMDG)	Not applicable
Environmental hazards	No
Special precautions for user	Handle in accordance with good industrial hygiene and safety practice

SECTION 15

Regulatory information

REACH code	Y110
UFI code	Not applicable
ECHA notification	Not applicable
Chemical safety assessment carried out?	Not applicable

SECTION 16

Other information

Revision notes / other information	Previous SDS version 1 published 30/09/2021 Hazard classification and labelling according to Regulation (EC) 1272/2008 All eye/face protection should comply with EN ISO 16321-1:2022 Respiratory equipment: Reusable air-purifying respirator (APR) Filter Type: ABEK Standard: EN 14387 National Regulations: -Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances Other regulations, limitations and legal regulations: -Directive 94/33/EC- The protection of young people at work
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