

Safety Data Sheet

#89968248 · 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'-Chloroacetanilide	539-03-7	CH3CONHC6H4Cl	10	03 Sep 2026

SECTION 1

Identification

1.1 Product identifier

Product name 4'-Chloroacetanilide

CAS number 539-03-7

EC / EINECS number 208-707-8

Chemical formula CH3CONHC6H4Cl

Molecular weight 169.61

SMILES CC(=O)NC1=CC=C(C=C1)Cl

1.2 Relevant identified uses of the substance or mixture and uses advised against

For research and development. Laboratory chemicals. Manufacture of substances. Not suitable for human or veterinary purposes.

1.3 Details of the supplier of the safety data sheet

Molekula Limited
1 Millennium Way, Newton Aycliffe
Durham, DL5 6JW, United Kingdom
info@molekula.com · +44 (0) 3302 000333

1.4 Emergency telephone number

0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification

2.1 Classification of the substance or mixture

Skin Irrit. 2; H315

Eye Irrit. 2; H319

STOT SE 3; H335

2.2 Label elements



WARNING

CODE	HAZARD STATEMENT
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H315	Causes skin irritation
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H319	Causes serious eye irritation
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H335	May cause respiratory irritation
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CODE	PRECAUTIONARY STATEMENT
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P260	Do not breathe dust/fume/gas/mist/vapours/spray
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P280	Wear protective gloves/protective clothing/eye protection/face protection
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P303+361	IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse with water/shower
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P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
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P305+351+338	IF IN EYES: Rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
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P308+313	IF exposed or concerned: Get medical advice/attention
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2.3 Other hazards

This substance is not classified as PBT or vPvB according to current UK criteria.

SECTION 3

Composition / information on ingredients

3.1 Substances

Name	4'-Chloroacetanilide
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CAS number	539-03-7
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EC number	208-707-8
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Concentration / purity	~100%
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Classification according to Regulation (EC) No 1272/2008	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335
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Hazard statements	H315, H319, H335
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Acute toxicity estimate (ATE)	No data available
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Impurities / stabilising additives	Not applicable
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SECTION 4

First-aid measures

4.1 Description of first aid measures

Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing. Administer oxygen if breathing is difficult. Get medical attention.
Skin contact	Rinse with water. Wash contaminated skin thoroughly after handling.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if vomiting occurs. Place unconscious person in recovery position. Get medical attention if symptoms persist.

Get medical attention if any discomfort continues. Show this Safety Data Sheet (SDS) to medical personnel. First aiders/ medical personnel need to protect themselves.

4.2 Most important symptoms and effects, both acute and delayed

Treat symptomatically.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5

Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Alcohol-resistant foam, carbon dioxide, dry powder, or water fog. Use media suitable for surrounding fire.
Unsuitable extinguishing media	Do not use water jet as it spreads the fire.

5.2 Special hazards arising from the substance or mixture

Harmful gases or vapours (CO₂, CO, oxides of nitrogen, HCl) may form during thermal decomposition or combustion.

5.3 Advice for firefighters

Avoid breathing fire gases. Evacuate area. Use positive-pressure SCBA and protective clothing. Cool containers with water spray. Control run-off water to prevent pollution.

SECTION 6

Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing. Do not touch spilled material. Avoid inhalation of dust. Use respiratory protection if ventilation is inadequate.

6.2 Environmental precautions

Avoid discharge into drains, watercourses, or ground.

6.3 Methods and material for containment and cleaning up

Clear spills immediately. Collect with shovel/broom and dispose safely. Flush contaminated area with water. Wash thoroughly after cleanup.

6.4 Reference to other sections

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

7.1 Precautions for safe handling

Not applicable

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature Ambient

Conditions for safe storage (incompatibilities) *Not applicable*

7.3 Specific end use(s)

See Section 1.2.

SECTION 8

Exposure controls / personal protection

8.1 Control parameters

Occupational exposure limits (OEL / WEL) No occupational exposure limits specified

DNEC/PNEC data Provide adequate general and local exhaust ventilation. Maintain and test ventilation systems. Good general ventilation should control worker exposure.

8.2 Exposure controls

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	Gloves: Nitrile Rubber, 0.11mm (480 mins).
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.
Other protection	<i>No data available</i>
Environmental exposure controls	<i>No data available</i>

SECTION 9

Physical & chemical properties

9.1 Information on basic physical and chemical properties

Appearance / physical state	Crystalline solid DERIVED FROM: LITERATURE
Colour	Light yellow DERIVED FROM: LITERATURE
Odour	Odourless DERIVED FROM: LITERATURE
Melting / freezing point	176-178°C DERIVED FROM: LITERATURE
Boiling point	333 °C DERIVED FROM: LITERATURE
Flammability	<i>No data available</i>
Lower and upper explosion limit	<i>No data available</i>
Flash point	<i>Not applicable</i>
Auto-ignition temperature	<i>Not applicable</i>
Decomposition temperature	<i>No data available</i>
pH	<i>Not applicable</i>
Acidity	Neutral DERIVED FROM: LITERATURE
Kinematic viscosity	<i>No data available</i>
Solubility	Insoluble in water DERIVED FROM: LITERATURE
Partition coefficient n-octanol/water (log value)	<i>Not applicable</i>
Vapour pressure	<i>Not applicable</i>

Density (g/mL)	1.385 g/mL DERIVED FROM: LITERATURE
Relative vapour density	No data available
Particle characteristics	No data available

9.2 Other information

No data available

SECTION 10

Stability & reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

None known

10.5 Incompatible materials

Strong oxidising agents

10.6 Hazardous decomposition products

Harmful gases or vapours (CO₂, CO, oxides of nitrogen, HCl) may form during thermal decomposition or combustion. See section 5

SECTION 11

Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (LD₅₀ / LC₅₀) Not applicable

Skin corrosion / irritation Not applicable

Eye corrosion / irritation Not applicable

Respiratory / skin sensitisation Not applicable

Carcinogenicity Not applicable

Mutagenicity Not applicable

Reproductive toxicity Not applicable

STOT (single / repeated exposure) Not applicable

Aspiration hazard*Not applicable*

11.2 Information on other hazards

This product does not contain any known or suspected endocrine disruptors.

SECTION 12**Ecological information****12.1 Toxicity***Not applicable*

12.2 Persistence and degradability*Not applicable*

12.3 Bioaccumulative potential*Not applicable*

12.4 Mobility in soil*Not applicable*

12.5 Results of PBT and vPvB assessment*Not applicable*

12.6 Endocrine disrupting properties*See Section 11.2.*

12.7 Other adverse effects*No data available*

SECTION 13**Disposal considerations****13.1 Waste treatment methods**

Dispose of contents/container in accordance with national regulations.

SECTION 14**Transport information****14.1 UN number or ID number***Not applicable*

14.2 UN proper shipping name*Not applicable*

14.3 Transport hazard class(es)*Not applicable*

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Special precautions for user *Not applicable*

Transport category *Not applicable*

Tunnel code *Not applicable*

Packing instruction (ADR) *Not applicable*

Packing instruction (IMDG) *Not applicable*

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15

Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Substance-specific regulations (e.g. licences) *No data available*

REACH code Y110

ECHA notification *Not applicable*

15.2 Chemical safety assessment

Not required

SECTION 16

Other information

Revision notes / other information This SDS replaces version 2 Revision date: 21/07/2022

This Safety Data Sheet was generated automatically from the data Molekula holds against this product, in the 16-section GHS/CLP format. Fields shown as "No data available" carry no recorded value; fields shown as "Not applicable" were assessed as not relevant to this substance. For queries, contact Molekula at info@molekula.com.