

Safety Data Sheet

#49574378 · 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
2-Chloro-5-(trifluoromethyl)benzoic acid 98.5%	657-06-7	C1C6H3(CF3)CO2H	10	25 Aug 2026

SECTION 1

Identification

Product name	2-Chloro-5-(trifluoromethyl)benzoic acid 98.5%
CAS number	657-06-7
Chemical formula	C1C6H3(CF3)CO2H
Molecular weight	224.56
SMILES	O=C(O)C1=CC(=CC=C1Cl)C(F)(F)F
EC / EINECS number	<i>Not applicable</i>
Recommended use & restrictions	For research and development. Laboratory chemicals. Manufacture of substances. Not suitable for human consumption or veterinary purposes.
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
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
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+351+338	IF IN EYES: Rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
P332+313	IF skin irritation occurs: Get medical advice/attention
P337+313	If eye irritation persists get medical advice/attention
Other hazards (e.g. PBT / vPvB, not classified)	Not applicable

SECTION 3

Composition / information on ingredients

Purity / concentration	~100%
Impurities / stabilising additives	Not applicable

SECTION 4

First-aid measures

Inhalation	Move affected person to fresh air and keep warm and at rest. 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. Get medical attention if discomfort continues.
Ingestion	Rinse mouth with water. Give small glasses of water or milk to drink. Do not induce vomiting. Place unconscious person in recovery position. Get medical attention if symptoms persist.
Symptoms / effects & medical attention	Treat symptomatically.

SECTION 5

Fire-fighting measures

Suitable extinguishing media	Alcohol-resistant foam, carbon dioxide, dry powder, or water fog.
Unsuitable extinguishing media	Water jet (spreads fire).
Special hazards	Harmful gases or vapours: carbon monoxide (CO), carbon dioxide (CO ₂), hydrogen chloride (HCl), hydrogen fluoride (HF).
Advice for firefighters	Avoid breathing fire gases. Evacuate area. Use water spray to cool containers. Wear SCBA and protective clothing (EN469). Control run-off water to prevent pollution.

SECTION 6

Accidental release measures

Personal precautions & PPE	Wear protective clothing and respiratory protection if ventilation is inadequate. Avoid inhalation of dust.
Environmental precautions	Avoid discharge into drains, watercourses, or ground.
Containment & clean-up methods	Collect spillage with shovel/broom. Dispose of waste safely. Flush contaminated area with water. Wash thoroughly after cleanup.

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

Storage temperature	Ambient
Precautions for safe handling	Wear protective clothing. Keep away from food, drink, and animal feeding stuffs. Keep container tightly sealed. Wash contaminated skin promptly.
Conditions for safe storage (incompatibilities)	Store in a cool, well-ventilated place. Keep container tightly closed and upright. Protect from damage. Store locked up. Store away from incompatible materials.

SECTION 8

Exposure controls / personal protection

Occupational exposure limits (OEL / WEL)	<i>Not applicable</i>
DNEC/PNEC data	<i>Not applicable</i>
Eye / face protection	Chemical splash goggles 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 (240mins)
Respiratory protection	Half-mask with filter 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 g/mL DERIVED FROM: LITERATURE
Flash point	Not applicable
Acidity	Acid DERIVED FROM: LITERATURE
Appearance / physical state	Powder DERIVED FROM: LITERATURE
Colour	White DERIVED FROM: LITERATURE
Odour	Not known DERIVED FROM: LITERATURE
Melting / freezing point	93-96°C (199.4-204.8°F) DERIVED FROM: LITERATURE
Boiling point	Not applicable
Solubility (water)	Not applicable
pH	Not applicable
Vapour pressure	Not applicable
Partition coefficient (log Pow)	Not applicable
Auto-ignition / decomposition temp	Not applicable

SECTION 10

Stability & reactivity

Chemical stability / reactivity	Stable at normal ambient temperatures and under prescribed storage conditions.
Conditions to avoid	Heat, sparks, open flames, sources of ignition. Exposure to moisture.
Incompatible materials	Strong oxidising agents
Hazardous decomposition products	Harmful gases or vapours: carbon monoxide (CO), carbon dioxide (CO ₂), hydrogen chloride (HCl), hydrogen fluoride (HF). See section 5

SECTION 11

Toxicological information**Acute toxicity (LD50 / LC50)** *No data available***Skin corrosion / irritation** *No data available***Eye corrosion / irritation** *No data available***Respiratory / skin sensitisation** *No data available***Carcinogenicity** *No data available***Mutagenicity** *No data available***Reproductive toxicity** *No data available***STOT (single / repeated exposure)** *No data available***Aspiration hazard** *No data available***Endocrine disruptors** This product does not contain any known or suspected endocrine disruptors.

SECTION 12

Ecological information**Aquatic toxicity** *No data available***Persistence & degradability** *No data available***Bioaccumulative potential** *No data available***Mobility in soil** *No data available***PBT / vPvB assessment** Not classified as PBT or vPvB according to current EU criteria.

SECTION 13

Disposal considerations**Waste treatment / disposal methods** Dispose of contents/container in accordance with national regulations.

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 *Not applicable*

Special precautions for user *Not applicable*



SECTION 15

Regulatory information

REACH code Y110

UFI code *Not applicable*

ECHA notification *Not applicable*

Chemical safety assessment carried out? Not required

SECTION 16

Other information

Revision notes / other information This SDS replaces version 2: 22.10.2021

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