

Safety Data Sheet

#37949430 · 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
3-Hydroxybenzaldehyde	100-83-4	HOC6H4CHO	10	18 Aug 2026

SECTION 1

Identification

Product name	3-Hydroxybenzaldehyde
CAS number	100-83-4
Chemical formula	HOC6H4CHO
Molecular weight	122.12
SMILES	<chem>C1=CC(=CC(=C1)O)C=O</chem>
EC / EINECS number	202-892-9
Recommended use & restrictions	For research and development. Laboratory chemicals. Manufacture of substances. Not suitable for human 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
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H412	Harmful to aquatic life with long lasting effects
CODE	PRECAUTIONARY STATEMENT
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P273	Avoid release to the environment
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
P308+P313	IF exposed or concerned: Get medical advice/attention
P333+313	IF skin irritation or a rash occurs: Get medical advice/attention
P337+313	If eye irritation persists get medical advice/attention
Other hazards (e.g. PBT / vPvB, not classified)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII; This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3

Composition / information on ingredients

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

SECTION 4

First-aid measures

Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing; give oxygen or artificial respiration if necessary; if breathing difficulties persist, get medical advice/attention.
Skin contact	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water; do not remove clothing if it sticks to the skin; if irritation persists, consult a doctor.
Eye contact	Rinse immediately with plenty of water; remove contact lenses, if present and easy to do; continue rinsing; if eye irritation persists, get medical advice/attention.
Ingestion	Rinse mouth out with water; do not induce vomiting; get medical advice/attention.
Symptoms / effects & medical attention	Treat symptomatically

SECTION 5

Fire-fighting measures

Suitable extinguishing media	Foam, dry powder, carbon dioxide, water spray, sand.
Unsuitable extinguishing media	Do not use a heavy water stream.
Special hazards	Carbon oxides (CO, CO ₂).
Advice for firefighters	Use water spray or fog for cooling exposed containers; do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6

Accidental release measures

Personal precautions & PPE	Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
Environmental precautions	Prevent entry to sewers and public waters; notify authorities if product enters sewers or public waters.
Containment & clean-up methods	On land, sweep or shovel into suitable containers; shovel or sweep up and put in a closed container for disposal.

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

Storage temperature	Ambient
Precautions for safe handling	Avoid creating or spreading dust; provide local exhaust or general room ventilation; wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Conditions for safe storage (incompatibilities)	Keep only in the original container in a cool, well ventilated place away from heat sources and direct sunlight; keep container closed when not in use; air sensitive; light sensitive; store contents under inert gas; incompatible with strong oxidisers and strong bases.

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	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.

SECTION 9

Physical & chemical properties

Density (g/mL)	1 g/mL DERIVED FROM: LITERATURE
Flash point	Not applicable
Acidity	Neutral DERIVED FROM: LITERATURE
Appearance / physical state	Solid DERIVED FROM: LITERATURE
Colour	Off white to light yellow. Pale brown. DERIVED FROM: LITERATURE
Odour	Odourless DERIVED FROM: LITERATURE
Melting / freezing point	100 - 103 °C DERIVED FROM: LITERATURE
Boiling point	191 °C at 67 hPa DERIVED FROM: LITERATURE
Solubility (water)	Soluble DERIVED FROM: LITERATURE
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	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
Conditions to avoid	Heat sources, direct sunlight, air contact.
Incompatible materials	Violent reactions possible with: Strong oxidizing agents, strong alkalis.
Hazardous decomposition products	Carbon oxides (CO, CO ₂).

SECTION 11

Toxicological information

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

SECTION 12

Ecological information

Aquatic toxicity	EC50: 48 hr, Algae or other aquatic plants.37 mg/l.
Persistence & degradability	Soluble in water, persistence is unlikely.
Bioaccumulative potential	Bioaccumulation is unlikely.
Mobility in soil	Highly mobile in soils.
PBT / vPvB assessment	Does not meet PBT or vPvB criteria.

SECTION 13

Disposal considerations

Waste treatment / disposal methods	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
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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	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 number: 1 Issued: 15.04.2019
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