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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

1.1 Product identifier

Product name	3-Hydroxybenzaldehyde
CAS number	100-83-4
EC / EINECS number	202-892-9
Chemical formula	HOC6H4CHO
Molecular weight	122.12
SMILES	C1=CC(=CC(=C1)O)C=O

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

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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

Acute Tox. 4; H302
Skin Irrit. 2; H315
Eye Irrit. 2; H319
STOT SE 3; H335
Aquatic Chronic 3; H412

2.2 Label elements

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

2.3 Other hazards

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

3.1 Substances

Name	3-Hydroxybenzaldehyde
CAS number	100-83-4
EC number	202-892-9
Concentration / purity	~100%
Classification according to Regulation (EC) No 1272/2008	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 Aquatic Chronic 3; H412
Hazard statements	H302, H315, H319, H335, H412
Acute toxicity estimate (ATE)	*No data available*
Impurities / stabilising additives	*Not applicable*

SECTION 4

First-aid measures

4.1 Description of 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.

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	Foam, dry powder, carbon dioxide, water spray, sand.
Unsuitable extinguishing media	Do not use a heavy water stream.

5.2 Special hazards arising from the substance or mixture

Carbon oxides (CO, CO2).

5.3 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

6.1 Personal precautions, protective equipment and emergency procedures

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.

6.2 Environmental precautions

Prevent entry to sewers and public waters; notify authorities if product enters sewers or public waters.

6.3 Methods and material for containment and cleaning up

On land, sweep or shovel into suitable containers; shovel or sweep up and put in a closed container for disposal.

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

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.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature	Ambient
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.

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)	*Not applicable*
DNEC/PNEC data	*Not applicable*

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	*No data available*
Environmental exposure controls	*No data available*

SECTION 9

Physical & chemical properties

9.1 Information on basic physical and chemical properties

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
Flammability	*No data available*
Lower and upper explosion limit	*No data available*
Flash point	*Not applicable*
Auto-ignition temperature	*Not applicable*
Decomposition temperature	*No data available*
pH	*Not applicable*
Acidity	Neutral DERIVED FROM: LITERATURE

Kinematic viscosity	*No data available*
Solubility	Soluble DERIVED FROM: LITERATURE
Partition coefficient n-octanol/water (log value)	*Not applicable*
Vapour pressure	*Not applicable*
Density (g/mL)	1 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

Heat sources, direct sunlight, air contact.

10.5 Incompatible materials

Violent reactions possible with: Strong oxidizing agents, strong alkalis.

10.6 Hazardous decomposition products

Carbon oxides (CO, CO2).

SECTION 11

Toxicological information

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

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*

11.2 Information on other hazards

This product does not contain any known or suspected endocrine disruptors

SECTION 12

Ecological information

12.1 Toxicity

EC50: 48 hr, Algae or other aquatic plants.37 mg/l.

12.2 Persistence and degradability

Soluble in water, persistence is unlikely.

12.3 Bioaccumulative potential

Bioaccumulation is unlikely.

12.4 Mobility in soil

Highly mobile in soils.

12.5 Results of PBT and vPvB assessment

Does not meet PBT or vPvB criteria.

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 to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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 number: 1 Issued: 15.04.2019

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.