# Chemical Safety Data Sheet MSDS / SDS

# 3-Chloro-4-hydroxybenzaldehyde

Revision Date:2025-07-26 Revision Number:1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

### **Product identifier**

Product name	: 3-Chloro-4-hydroxybenzaldehyde				
CBnumber	: CB9203815				
CAS	: 2420-16-8				
Synonyms	: 3-Chloro-4-hydroxybenzaldehyde				
Relevant identified uses of the substance or mixture and uses advised against					
Relevant identified uses	: For R&D use only. Not for medicinal, household or other use.				
Uses advised against	: none				
Company Identification					
Company	: Chemicalbook				
Address	: Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing				
Telephone	: 010-86108875				

# SECTION 2: Hazards identification

#### GHS Label elements, including precautionary statements

Symbol(GHS)



### Signal word

Danger

#### Precautionary statements

P405 Store locked up.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

#### Continuerinsing.

P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash skin thouroughly after handling.

P264 Wash hands thoroughly after handling.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

#### Hazard statements

H335 May cause respiratory irritation

H319 Causes serious eye irritation

1

# SECTION 3: Composition/information on ingredients

#### Substance

: 3-Chloro-4-hydroxybenzaldehyde
: 3-Chloro-4-hydroxybenzaldehyde
: 2420-16-8
: C7H5CIO2
: 156.57

### SECTION 4: First aid measures

### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### Indication of any immediate medical attention and special treatment needed

No data available

# **SECTION 5: Firefighting measures**

#### Special hazards arising from the substance or mixture

Carbon oxides, Hydrogen chloride gas

#### Advice for firefighters

No data available

#### Further information

No data available

#### **NFPA 704**



HEALTH 2

Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury (e.g. diethyl

F	FIRE	1	Materials that require considerable preheating, under all ambient temperature conditions, before ignition and combustion can occur. Includes some finely divided suspended solids that do not require heating before ignition can occur. Flash point at or above 93.3 °C (200 °F). (e.g. <u>mineral oil</u> , ammonia)
F	REACT	0	Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium, <u>N2</u> )
	SPEC.		
	HAZ.		

### **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

For personal protection see section 8.

#### **Environmental precautions**

No data available

### Methods and materials for containment and cleaning up

No data available

#### Reference to other sections

For disposal see section 13.

### SECTION 7: Handling and storage

#### Precautions for safe handling

For precautions see section 2.2.

#### Conditions for safe storage, including any incompatibilities

No data available

#### Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### SECTION 8: Exposure controls/personal protection

### control parameter

#### Hazard composition and occupational exposure limits

Does not contain substances with occupational exposure limits.

# SECTION 9: Physical and chemical properties

### Information on basic physicochemical properties

Appearance	solid
Odour	No data available
Odour Threshold	No data available
рН	No data available
Melting point/freezing point	Melting point/range: 133 - 137 °C - lit.
Initial boiling point and boiling range	150 °C / 14mmHg
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive	No data available
limits	
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	No data available
Partition coefficient: n-octanol/water	log Pow: 1,981
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

### Other safety information

No data available

# SECTION 10: Stability and reactivity

### Reactivity

No data available

### **Chemical stability**

No data available

### Possibility of hazardous reactions

No data available

#### Conditions to avoid

No data available

#### Incompatible materials

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas Other decomposition products - No data available In the event of fire: see section 5

# SECTION 11: Toxicological information

#### Information on toxicological effects

Acute toxicity No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation Germ cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. **Reproductive toxicity** No data available Specific target organ toxicity - single exposure Inhalation - May cause respiratory irritation. Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# SECTION 12: Ecological information

#### Toxicity

No data available

#### Persistence and degradability

No data available

#### **Bioaccumulative potential**

No data available

### Mobility in soil

No data available

### Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### Other adverse effects

No data available

# SECTION 13: Disposal considerations

#### Waste treatment methods

#### Product

No data available

# **SECTION 14: Transport information**

### **SECTION 14: Transport information**

IATA:

IATA:

#### UN number

ADR/RID: - IMDG: - IATA: -ADR/RID: 3077 IMDG: 3077 IATA: 3077 ADR/RID: 3077 IMDG: 3077 IATA: 3077 ADR/RID: 2811 IMDG: 2811 IATA: 2811 ADR/RID: - IMDG: - IATA: -ADR/RID: - IMDG: - IATA: -ADR/RID: 3272 IMDG: 3272 IATA: 3272 ADR/RID: 2811 IMDG: 2811 IATA: 2811 ADR/RID: 2811 IMDG: 2811 IATA: 2811 ADR/RID: 5.1 (6.1) IMDG: 5.1 IATA: 5.1 ADR/RID: 5.1 (6.1) IMDG: 5.1 IATA: 5.1 ADR/RID: - IMDG: - IATA: -ADR/RID: 1131 IMDG: 1131 IATA: 1131 ADR/RID: - IMDG: - IATA: 3334 ADR/RID: - IMDG: - IATA: -

#### UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Aviation regulated liquid, n.o.s. (Bis(4-chlorobutyl) Chemical Book ADR/RID: CARBON DISULPHIDE IMDG: CARBON DISULPHIDE IATA: Carbon disulphide Passenger Aircraft: Not permitted for transport Cargo

Aircraft: Not permitted for transport

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

ADR/RID: III IMDG: III IATA: III

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

ADR/RID: TOXIC SOLID, ORGANIC, N.O.S. (Carmustine) IMDG: TOXIC SOLID, ORGANIC, N.O.S. (Carmustine) IATA: Toxic solid, organic, n.o.s. (Carmustine)

ADR/RID: ESTERS, N.O.S. (Ethyl 4,4,4-trifluoroacetoacetate) IMDG: ESTERS, N.O.S. (Ethyl 4,4,4-trifluoroacetoacetate) IATA: Esters, n.o.s. (Ethyl 4,4,4-trifluoroacetoacetate)

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

ADR/RID: TOXIC SOLID, ORGANIC, N.O.S. (Paliperidone) IMDG: TOXIC SOLID, ORGANIC, N.O.S. (Paliperidone) IATA: Toxic solid, organic, n.o.s. (Paliperidone)

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2-Bromo-1,3- diphenylpropane-1,3-dione) IMDG:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2-Bromo-1,3- diphenylpropane-1,3-dione) IATA: Environmentally hazardous

substance, solid, n.o.s. diphenylpropane-1,3-dione)

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

#### Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -ADR/RID: - IMDG: - IATA: -(2-Bromo-1,3- ADR/RID: 9 IMDG: 9 IATA: 9 ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1 ADR/RID: - IMDG: - IATA: -ADR/RID: - IMDG: - IATA: -ADR/RID: 3 IMDG: 3 IATA: 3 ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1 ADR/RID: - IMDG: - IATA: -ADR/RID: - IMDG: - IATA: -ADR/RID: yes IMDG Marine pollutant: yes IATA: no ADR/RID: - IMDG: - IATA: -ADR/RID: 3 (6.1) IMDG: 3 (6.1) IATA: 3 (6.1) ether) ADR/RID: - IMDG: - IATA: -

#### Packaging group

ADR/RID: - IMDG: - IATA: -ADR/RID: - IMDG: - IATA: III ADR/RID: I IMDG: I IATA: -ADR/RID: - IMDG: - IATA: -No data available ADR/RID: - IMDG: - IATA: -ADR/RID: II IMDG: III IATA: III Adr/Rid: - IMDG: - IATA: -Adr/Rid: - IMDG: - IATA: -Adr/Rid: III IMDG: III IATA: III Adr/Rid: III IMDG: III IATA: III Adr/Rid: - IMDG: - IATA: -Adr/Rid: - IMDG: - IATA: -

#### **Environmental hazards**

ADR/RID: no IMDG Marine pollutant: no IATA: no ADR/RID: no IMDG Marine pollutant: no IATA: no Special precautions for user Further information Not classified as dangerous in the meaning of transport regulations. ADR/RID: no IMDG Marine pollutant: no IATA: no No data available ADR/RID: no IMDG Marine pollutant: no IATA: no ADR/RID: no IMDG Marine pollutant: no IATA: no

of transport regulations.

#### Special precautions for user

No data available Further information EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids. No data available

# **SECTION 15: Regulatory information**

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

#### **Regulations on the Safety Management of Hazardous Chemicals**

China Catalog of Hazardous chemicals 2015:Not Listed. website: https://www.mem.gov.cn/

#### Measures for Environmental Management of New Chemical Substances

Vietnam National Chemical Inventory:Not Listed. website: https://chemicaldata.gov.vn/ United States Toxic Substances Control Act (TSCA) Inventory:Not Listed. website: https://www.epa.gov/ Philippines Inventory of Chemicals and Chemical Substances (PICCS):Not Listed. website: https://emb.gov.ph/ New Zealand Inventory of Chemicals (NZIoC):Not Listed. website: https://www.epa.govt.nz/ Korea Existing Chemicals List (KECL):Not Listed. website: http://ncis.nier.go.kr European Inventory of Existing Commercial Chemical Substances (EINECS):Not Listed. website: https://echa.europa.eu/ EC Inventory:Not Listed.

Chinese Chemical Inventory of Existing Chemical Substances (China IECSC):Not Listed. website: https://www.mee.gov.cn/

# **SECTION 16: Other information**

#### Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

- CAS: Chemical Abstracts Service
- EC50: Effective Concentration 50%
- IATA: International Air Transportation Association

IMDG: International Maritime Dangerous Goods

- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

- STEL: Short term exposure limit
- TWA: Time Weighted Average

#### References

- [1] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- [2] ChemlDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- [3] ECHA European Chemicals Agency, website: https://echa.europa.eu/
- [4] eChemPortal The Global Portal to Information on Chemical Substances by OECD, website:
- http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en
- [5] ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- [6] Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- [7] HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- [8] IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- [9] IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- [10] Sigma-Aldrich, website: https://www.sigmaaldrich.com/

#### **Disclaimer:**

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.