

CINNAMALDEHYDE

Safety Data Sheet

Supersedes: 17/02/2025

Revision: 1.6

Revision date: 01/10/2026

SECTION 1: Identification

1.1 Identification

Product form	:	Substance
Substance name	:	Cinnamaldehyde
CAS No	:	104-55-2
EC/ List No	:	203-213-9
Formula	:	C ₉ H ₈ O
Molecular weight	:	132.15 g/mol
Synonyms	:	3-phenyl-2-propenal, cinnamic aldehyde

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

Use of the substance/mixture	:	As flavoring ingredient and fragrance additive.
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1.3 Details of the supplier of the safety data sheet

Godavari Biorefineries Ltd.
45/47, Somaiya bhavan,
Mahatma Gandhi Road,
Fort, Mumbai -400001, INDIA.
T 0091 22 22048272
Email: alka@somaiya.com
www.somaiya.com

1.4 Emergency telephone Number

Emergency number	:	0091 2423 279308
	:	0091 22 22048272 (Monday – Friday - 09.30 hrs to 18.00 hrs)

SECTION 2: Hazard(s) identification

GHS classification

2.1 Classification of the substance or mixture

Skin Sens. Category 1	:	H315 causes skin irritation
Skin Irrit. Category 2	:	H317 may cause an allergic skin reaction
Eye Irrit. Category 2	:	H319 causes serious eye irritation

2.2 GHS labeling

Hazard pictograms (GHS)



GHS07

Signal word (GHS)

: Warning

Hazard statements (GHS)

:

H315

: Causes skin irritation

H317

: May cause an allergic skin reaction

H319

: Causes serious eye irritation

Precautionary statements (GHS)

:

P302+P352

: IF ON SKIN: wash with plenty of water

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- P333+P313 : IF SKIN irritation or rash occurs: Get medical advice/attention.
- P321 : Specific treatment (see ... on this label).
- P362+P364 : Take off contaminated clothing and wash it before reuse.
- P332+P317 : If skin irritation occurs: Get medical help.
- P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
- P337+P317 : If eye irritation persists: Get medical help.

2.3 Other hazards

Other hazards not contributing to the Classification : None.

2.4 Unknown acute toxicity (GHS US)

Not applicable.

SECTION 3: Composition/Information on ingredients

3.1 Substance

Substance type : Mono-constituent

Name	Product Identifier CAS No. EC No.	Concentration %	GHS Classification
Cinnamaldehyde (Sum of Isomers)	104-55-2 203-213-9	Min. 99.00%	Skin Sens 1 . H317, Skin Irrit. 2 ,H315, Eye Irrit. 2 H319

3.2 Mixture

Not Applicable.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General description : Do not leave the victim unattended. Consult Physician. Show this safety data sheet to doctor in attendance.
- Inhalation : Supply fresh air. If required, provide artificial respiration. Keep patient warm. In case of unconsciousness place patient stably in side position for transportation.
- Skin contact : Remove contaminated clothing. Immediately wash with water and soap and rinse thoroughly. If irritation occurs , consult a doctor.
- Eye contact : Check for and remove any contact lenses. Protect unharmed eye. Rinse opened eye for several minutes under running water.
- Ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : Vapours may cause headache, fatigue, dizziness and nausea.
- Symptoms/injuries after skin contact : May cause allergic skin reaction.
- Symptoms/injuries after eye contact : Causes eye irritation.
- Symptoms/injuries after ingestion : Nausea, vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Seek medical assistance.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

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| Suitable extinguishing media | : | Water spray, carbon dioxide, alcohol resistant foam, dry chemical powder. |
| Unsuitable extinguishing media | : | No unsuitable extinguishing media known. |

5.2 Special hazards arising from the substance or mixture

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|------------------|---|---|
| Explosion hazard | : | In combustion emits toxic fumes of carbon monoxide. |
| Reactivity | : | No further relevant information known. |

5.3 Advice for firefighters

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|--------------------------------|---|--|
| Firefighting instructions | : | Avoid breathing fire gases or vapours. |
| Protection during firefighting | : | Wear self-contained respiratory protective device. |

5.4 Additional information

No Data Available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

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|----------------------|---|---|
| Protective equipment | : | Wear protective clothing as described in Section 8. |
| Emergency procedures | : | Keep upwind. Mark the danger area. Consider evacuation. Seal off low-lying areas. Close doors and windows of adjacent premises. Stop nearby engines and no smoking. No naked flames or sparks. Use Spark- and explosion-proof appliances and lighting equipment |

For emergency responders

- | | | |
|----------------------|---|---|
| Protective equipment | : | wear appropriate protective equipment and self-contained breathing apparatus. |
| Emergency procedures | : | Evacuate personnel to safe areas, shut off all ignition sources. |

6.2 Environmental precautions

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up

- | | | |
|-------------------------|---|--|
| For containment | : | Use compatible material of containers. |
| Methods for cleaning up | : | Absorb with liquid binding material (sand, diatomite, acid binder, universal binders, sawdust) |

6.4 Reference to other sections

No additional information available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- | | | |
|-------------------------------|---|---|
| Precautions for safe handling | : | Ensure good ventilation/exhaustion at the workplace. Avoid contact with eyes and skin. Handle in accordance with good industrial hygiene and safety practice. |
| Hygiene measures | : | Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking. |

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7.2 Conditions for safe storage, including any incompatibilities

Storage temperature	:	Not available.
Heat-ignition	:	KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.
Prohibitions on mixed storage	:	KEEP SUBSTANCE AWAY FROM: combustible materials. oxidizing agents. (strong) bases.
Storage area	:	Store in a dry area. Ventilation at floor level. Keep out of direct sunlight. Fireproof storeroom. Keep receptacle tightly sealed. Meet the legal requirements.
Special rules on packaging	:	SPECIAL REQUIREMENTS: closing. dry. clean. correctly labelled. meet the legal requirements.
Packaging materials	:	No further relevant information available

7.3 Specific end uses

Manufacturing of substances

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Not required.

8.2 Exposure controls

Appropriate engineering controls	:	Material should be handled safely.
Personal protective equipment	:	 Protective goggles.  Gloves.  Protective clothing.
Materials for protective clothing	:	Butyl rubber or nitrile rubber. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Hand protection	:	Gloves.
Eye protection	:	Protective goggles ,Eyewash fountains and safety showers.
Skin and body protection	:	Head/neck protection.
Respiratory protection	:	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
Thermal hazard protection	:	None.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Oily Liquid
Colour	:	Yellow
Odour	:	Strong odour of cinnamon
pH	:	No data available
Melting point	:	Not applicable
Freezing point	:	-7.5 °C

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Initial boiling point/boiling range	: 253 °C
Flash Point	: 105 °C - Pensky-Martens closed cup - ASTM D 93
Relative evaporation rate	: No Data Available
Relative vapour density at 20°C	: No Data Available
Specific gravity/ density	: 1.045 to 1.053 g/cm ³ at 25°C
Molecular mass	: 132.15 g/mol
Flammability [Solid/Gas]	: No Data Available
Solubility	: 2865 mg/l at 25°C
Vapour pressure	: 3.85 Pa at 25°C
Evaporation Rate	: No Data Available
Partition coefficient n-octanol/water	: 1.9
Auto-ignition temperature	: No Data Available
Decomposition temperature	: No Data Available
Dynamic Viscosity	: 22.12 mPa.s at 20°C
Explosive Limits (Upper/lower flammability)	: No Data Available
Oxidizing properties	: Not oxidizing

9.2 Other information

Surface Tension	: 39 mN/m (25°C)
VOC content	: No data available

SECTION 10: Stability and reactivity

10.1 Reactivity	: No further relevant information available.
10.2 Chemical Stability	: Stable at ambient temperature and under normal conditions of use.
10.3 Possibility of hazardous reactions	: No potentially hazardous reactions known.
10.4 Conditions to avoid	: Extremely high or low temperatures. Incompatible materials.
10.5 Incompatible materials	: Strong acids and bases , strong oxidizing agents.
10.6 Hazardous decomposition products	: carbon monoxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Likely routes of exposure	: Skin , eye
Acute toxicity	: None

Cinnamaldehyde (104-55-2)

LD50 oral toxicity	: 2200 mg/kg bw (rat)
LD50 dermal toxicity	: No further relevant information available.
LC50 inhalation toxicity	: No further relevant information available.

Skin corrosion/irritation	: Irritating.
Serious eye damage/irritation	: Irritating.
Respiratory or skin sensitisation	: causes skin sensitization.
Germ cell mutagenicity	: No further relevant information available.
Carcinogenicity	: No further relevant information available.

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Reproductive toxicity	:	No further relevant information available.
Specific target organ toxicity (single exposure)	:	No further relevant information available.
Specific target organ toxicity (repeated exposure)	:	No further relevant information available.
Aspiration hazard	:	No further relevant information available.

SECTION 12: Ecological information

Ecology - general	:	Not classified.
Ecology - air	:	Not classified.
Ecology – water	:	Not classified.

Cinnamaldehyde (104-55-2)				
Toxicity to Fish		Toxicity to aquatic invertebrates	Toxicity to aquatic plants	Toxicity to Microorganisms
Value	-	EC 4.22 mg/L (48 h)	EC50 - 4.07 to 6.87 mg/L(72 h)	-
Species		Daphnia magna	Green algae	

12.2 Persistence and degradability

Cinnamaldehyde (104-55-2)

Persistence and degradability	:	No further relevant information available.
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12.3 Bio accumulative potential

Bio-accumulative potential	:	No further relevant information available.
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12.4 Mobility in soil

Ecology – soil	:	No further relevant information available
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12.5 Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste disposal recommendations	:	Remove and dispose of waste in accordance with applicable local and/or national regulations through an authorized waste management or disposal through an authorized waste incineration facility. Do not discharge waste into drains, soil, water bodies, or the environment. Contaminated packaging shall be handled and disposed of in accordance with applicable regulations.
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SECTION 14 : Transport Information

Marine transport (IMDG)

UN number	:	Not regulated.
Proper shipping name and description	:	Not regulated.
Class	:	Not regulated.
Packaging group	:	Not regulated.
Hazard Identification Number	:	Not applicable.
EmS code	:	Not applicable.

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Marine pollutant : No.

Air transport ICAO/IATA

UN number : Not regulated.
 Proper shipping name and description : Not regulated.
 Class : Not regulated.
 Packaging group : Not regulated.
 Hazard Labels : Not applicable.
 Environmentally hazardous : No.

Department of Transportation (DOT)

UN number : Not regulated.
 Proper shipping name : Not regulated.
 Hazard class : Not regulated.
 Packaging group : Not regulated.
 Quantity limitations (QL) : Not regulated.
 Poison Inhalation Hazard : No.
 Hazard labels : Not regulated

SECTION 15: Regulatory information

15.1 National regulations

Cinnamaldehyde (104-55-2)

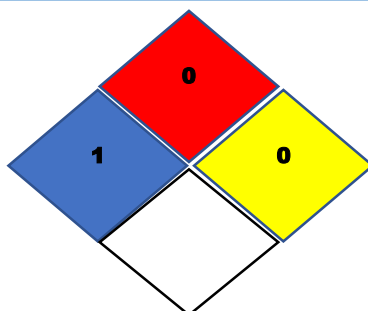
Country	National Inventories	Listing
CANADA	DSL	Listed
EUROPE	EC	Listed
NEWZEALAND	NZIoC	Listed
TAIWAN	TCSI	Listed
USA	TSCA	Listed

SECTION 16: Other information

16.1 Hazard Statement

H315 : Causes skin irritation
 H317 : May cause an allergic skin reaction
 H319 : Causes serious eye irritation

16.2 NFPA Rating



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16.3 Abbreviations and acronyms

:	PBT = Persistent , bioaccumulative , toxic
	vPvB= Very Persistent and Very Bioaccumulative
	SCBA= Self Contained Breathing Apparatus
	NIOSH REL= National Institute for Occupational Safety and Health Recommended Exposure Limit
	OSHA PEL=Occupational Safety and Health Administration Permissible Exposure Limit
	OELTWA= Occupational Exposure Limit Time Weighted Averages
	IDLH= Immediately Dangerous to Life or Health
	UEL= Upper Explosive Limit
	LEL= Lower Explosive Limit
	RTECS= Registry of Toxic Effects of Chemical Substances
	NTP=National Toxicology Programm
	IARC= International Agency for Research on Cancer
	EPA=Environmental Protection Agency
	TSCA= Toxic Substances Control Act
	NFPA= National Fire Protection Association
	CSR=Chemical Safety Report
	BCF = Bio Concentration Factor
	DNEL = Derived No Effect Level
	PNEC = Predicted No Effect Concentration
	TLV = Threshold Limit Value
	ACGIH = American Conference of Governmental Industrial Hygienist
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	CLP = Classification, Labelling and Packaging
	LD / LC = Lethal Doses / Lethal Concentration
	GHS = Globally Harmonised System
	ADR = Accord europeen relative au transport international de marchandises
	IMDG-Code = International Maritime Code for Dangerous Goods
	EmS = Emergency measures on Sea
	ICAO = International Civil Aviation Organization
	IATA/DGR= International Air Transport Association/Dangerous Goods Regulation.

16.4 Further information:

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and Godavari Biorefineries Ltd. assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.

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