

# SAFETY DATA SHEET

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## 1. Identification of the substance and of the supplier

GHS product identifier  
 Product name: CINNAMIC ALDEHYDE NAT  
 Other means of identification  
 CAS Number 104-55-2  
 EC Number 203-213-9  
 FEMA Number 2286  
 Recommended use of the chemical and restrictions on use  
 Recommended use Concentrated aromatic and flavor ingredient which may be used in flavor and fragrance compounds according to legal and IFRA or FEMA GRAS/FDA guidelines.  
 Restrictions on use For Manufacturing Use Only  
 Supplier's details  
 Company name Asia Specialty Ingredients Joint Stock Company  
 Address Chi Long Village, Ngoc Long Commune, Yen My District, Hung Yen Province, Vietnam  
 Telephone +84 2213 580 989  
 Website [www.asi-vn.com](http://www.asi-vn.com)  
 Email [info@asi-vn.com](mailto:info@asi-vn.com)  
 Emergency phone number +84 986 385 445

## 2. Hazards identification

GHS classification of the substance  
 Physical hazards Flammable liquids Not classified  
 Health hazards Acute toxicity Category 4  
 Skin irritation Category 2  
 Eye irritation Category 2  
 Skin sensitization Category 1  
 Specific target organ toxicity - Single exposure Category 3  
 Respiratory system  
 Environmental hazards Hazardous to the aquatic environmental Category 3  
 GHS label elements Pictogram



Signal word

Warning

#### Hazard statements

- H312 Harmful in contact with skin
- H315 Cause skin irritation
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation
- H412 Harmful to aquatic life with long lasting effects

#### Precautionary statements

##### Prevention

- P261 Avoid breathing fumes
- P264 Wash hands thoroughly after handling
- P271 Use only outdoors or in a well-ventilated area
- P273 Avoid release to the environment
- P280 Wear protective gloves/eye protection/face protection

##### Response

- P363 Wash contaminated clothing before reuse

##### Storage

- P405 Store locked up

##### Disposal

- P501 Dispose of contents/container in accordance with local/regional/national/international regulations

##### Other hazards which do not result in classification

After prolonged contact with highly porous materials, this product may spontaneously combust

### 3. Composition/information on ingredients

#### Chemical identity

Chemical name	Cinnamic Aldehyde
Common name, synonym, etc.	Cinnamal; Cinnamaldehyde; 3-Phenyl-2-propenal
Formula	C <sub>9</sub> H <sub>8</sub> O
Molecular weight	132.16 g/mol
<u>CAS number and other unique identifiers</u>	
CAS Number	104-55-2
EC Number	203-213-9
FEMA Number	2286
Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance	No data available

### 4. First-aid measures

#### Description of necessary measures

##### Inhalation

If breathing is difficult, move to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.

Skin contact	Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.
Eye contact	Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.
Ingestion	Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.
Most important symptoms/effects	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
Indication of immediate medical attention and special treatment needed, if necessary	No further relevant information available

## 5. Fire-fighting measures

Suitable and unsuitable extinguishing media	
Suitable extinguishing media	Water spray, fog, CO <sub>2</sub> , dry chemicals, or alcohol resistant foam.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical	Fire may produce irritating, corrosive and/or toxic gases. Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material.
Special protective equipment and precautions for fire-fighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural fire fighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode when fighting fires.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.
Environmental precautions	Do not allow to enter sewers/surface or ground water.
Methods and materials for containment and cleaning up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation

## 7. Handling and storage

Precautions for safe handling	Do not handle or store near an open flame, heat or other sources of ignition. Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material. May auto-oxidize with sufficient heat generation to ignite if spread (as a thin film) or absorbed on porous or fibrous material. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Contaminated rags and cloths must be put in fireproof containers for disposal. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling
Conditions for safe storage, including any compatibilities	Do not store in direct sunlight. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

## 8. Exposure controls/personal protection

Control parameters	
Occupational exposure limits	This substance has no PEL, TLV, or other recommended exposure limits.
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Use explosion-proof ventilation equipment to stay below exposure limits. Adequate ventilation should be provided so that exposure limits are not exceeded.
Individual protection measures	

Eye/face protection	Face shield is recommended. Avoid contact with eyes.
Hand skin protection	Chemical resistant gloves.
Other skin protection	Use of an impervious apron is recommended.
Respiratory protection	Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

## 9. Physical and chemical properties

Physical state	Liquid
Colour	Colourless to Yellow
Odour	Characteristics
Melting point/freezing point	-7.5°C
Boiling point or initial boiling point and boiling range	253°C
Flammability	No data available
Lower and upper explosion limit/flamability limit	No data available
Flash point	105°C, Closed cup
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	No data available
Solubility	Insoluble in water
Partition coefficient: n-octanol/water (log value)	No data available
Vapour pressure	0.03 mm Hg at 25 °C
Density and/or relative density	1.046 to 1.050 @ 20 °C
Relative vapour density	4.6
Particle characteristics	No data available

## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.

Conditions to avoid	Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products.	No hazardous decomposition products if stored and handled as indicated.

## 11. Toxicological information

### Information of the likely routes of exposure

Inhalation	Knowledge about health hazard is incomplete.
Skin Contact	Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.
Eye Contact	Causes eye irritation.
Ingestion	Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

### Information on toxicological effects

Acute toxicity	Harmful in contact with skin. Harmful if swallowed.
Skin corrosion/irritation	Causes skin irritation: Human - 40 mg/48H - SEVERE.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitization	
Respiratory sensitization	Due to partial or complete lack of data the classification is not possible.
Skin sensitization	May cause an allergic skin reaction.
Delayed and immediate effects and also chronic effects from short- and long-term exposure	No data available
Numerical measures of toxicity	No data available

## 12. Ecological information

Ecotoxicity	Toxic to aquatic life.
Persistence and degradability	No data is available on the degradability of this substance.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

Disposal instructions	Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	Not established.
Waste from residues/ unused products	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### 14. Transport information

UN number	Not classified
UN proper shipping name	Not classified
Transport hazard class	Not classified
Packing group, if applicable	Not classified
Environmental hazards	Not classified
Transport in bulk according to IMO instruments	Not classified
Special precautions	No data available

#### 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance	This safety datasheet complies with the requirement of Regulation (EC) No. 1997/2006
Other regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
Chemical safety assessment	For this product a chemical safety assessment was not carried out

#### 16. Other information

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information



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