

# Safety Data Sheet

According to Regulation (EU) No. 1907/2006 (REACH), Annex II  
(COMMISSION REGULATION (EU) No 453/2010)

Version: 1.0/EN  
Product name: gamma-NONALACTONE (ALDEHYDE C-18) FCC

Revision date: 29/11/2012  
Printing date: 29/11/2012

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

### 1.1 Product identifier

Product name: gamma-NONALACTONE (ALDEHYDE C-18) FCC  
REACH Reg. No.: 01-2119959335-30-0001  
CAS No.: 104-61-0

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

Identified uses: Fragrance Usage: It can be widely used in the essence for the industrial products.  
Flavor Usage: (only FCC) Used in coconut, peach, apricot, vanilla, maple, honey and chocolate flavors.  
Uses advised against: No information available.

### 1.3 Details of the supplier of the SDS

Manufacturer: ANHUI HYE AROMAS CO., LTD.  
Address: Pengling Industrial Park, Qianshan, Anhui Province, China  
Postcode: 246300  
E-mail: ligainian@anhuihuaye.com  
Telephone: +86-556-8968843  
Fax: +86-556-8928588; +86-556-8977997

Importer:  
Address:  
E-mail:  
Telephone:



### 1.4 Emergency telephone number

+86-556-8930969

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008[CLP]

This product is not classified as hazardous.

Classification according to Directive 67/548/EEC[DSD] or Directive 1999/45/EC[DPD]

This product is not classified as hazardous.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008[CLP]

Hazard pictogram(s): No pictogram is used.

Signal word: No signal word is used.

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**Hazard statement(s):** No hazard statement.

**Precautionary statement(s):** No precautionary statement.

**Supplemental Hazard information (EUH):**

No information available.

**Special rules for supplemental label elements for certain mixtures:**

No information available.

## 2.3 Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substance/Preparation information

Substance name: nonan-4-olide

Synonyms: 2(3H)-Furanone, dihydro-5-pentyl-;

Abricolin

CAS No.: 104-61-0

EC No.: 203-219-1

Purity: Min 99.0%

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes:

In all cases of doubt, or when symptoms persist, seek medical attention.

#### Following inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if you feel unwell.

#### Following skin contact:

Wash with soap and plenty of water. If skin irritation occurs: Get medical attention.

#### Following eye contact:

Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

#### Following ingestion:

Rinse mouth. Never give anything through mouth to an unconscious person. Call a POISON Center or doctor if you feel unwell.

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

May be irritating to skin and eyes, cause burning sensation, cough, wheezing, laryngitis, shortness of breath,

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headache, nausea, vomiting.

## 4.3 Indication of the immediate medical attention and special treatment needed

No information available.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** Dry powder, carbon dioxide, foam, water spray jet.

**Unsuitable extinguishing media:** No information available.

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

Thermal decomposition can lead to release of irritating or toxic gases/vapors: carbon oxides.

### 5.3 Advice for fire-fighters

Wear self-contained breathing apparatus and chemical-protective clothing. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## SECTION 6: Accidental release measures

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

Refer to SECTION 8 for personal protective equipment. Prevention of skin and eye contact. Ensure adequate ventilation. Avoid breathing vapors, mist or gas. Remove all sources of ignition.

### 6.2 Environmental precautions

Do not discharge into drains/surface waters/groundwater. Pigment is generally insoluble in water.

### 6.3 Methods and material for containment and cleaning up

Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean accident area carefully. Use warm water and cleaning agent. Remove all sources of ignition. Provide ventilation.

### 6.4 Reference to other SECTIONS

See SECTION 7 for information on safe handling.

See SECTION 8 for information on personal protection equipment.

See SECTION 13 for information on disposal.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Use this material with adequate

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ventilation. Keep away from sources of ignition. Take precautionary measures against electrostatic loading.

## 7.2 Conditions for safe storage, including any incompatibilities

Store tightly sealed under inert gas in a cool, well-ventilated area. Keep away from heat and ignition sources.

## 7.3 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

### 8.1 Control parameters

**Occupational exposure limit values:**

Not established.

**DNEL (Derived No Effect Level) for workers and the general population:**

Not available.

**PNEC (Predicted No Effect Concentration) values:**

Not available.

### 8.2 Exposure controls

**Appropriate engineering controls:**

Provide local exhaust or process enclosure ventilation system.

**Personal protective equipment:**

Eye and face protection: Wear splash-proof safety glasses.

Skin protection: Wear rubber gloves/clothing to prevent contact.

Respiratory protection: In case of inadequate ventilation wear dust mask.

**Environmental exposure controls:**

Do not empty into drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance:** Colorless oily liquid

**Odour:** Fruit, dairy, orchid

**pH:** Not available.

**Melting point:** Not available.

**Boiling point:** 243 °C atmospheric

**Flash point:** 110 °C

**Evaporation rate:** Not available.

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<b>Flammability (solid, gas):</b>	Not available.
<b>Upper/lower flammability or explosive limits:</b>	Not available.
<b>Vapour pressure:</b>	0.02 mmHg at 20°C FMA
<b>Vapour density (Air = 1):</b>	> 1
<b>Density:</b>	Not available.
<b>Specific gravity (water = 1):</b>	0.9580 : 0.9660 (25 °C)
<b>Solubility(ies):</b>	Insoluble in water; soluble in alcohol.
<b>Partition coefficient: n-octanol/water:</b>	Not available.
<b>Auto-ignition temperature:</b>	Not available.
<b>Decomposition temperature:</b>	Not available.
<b>Viscosity:</b>	Not available.
<b>Explosive properties:</b>	Product is not explosive.
<b>Oxidising properties:</b>	No oxidising properties.

## 9.2 Other information

No information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage and handling conditions (see SECTION 7, handling and storage).

### 10.2 Chemical stability

Stable under normal conditions of use.

### 10.3 Possibility of hazardous reactions

Presents no special reactivity hazard.

### 10.4 Conditions to avoid

Flames, sparks, and other sources of ignition.

### 10.5 Incompatible materials

Strong oxidizing agents.

### 10.6 Hazardous decomposition products

CO, CO<sub>2</sub>, smoke and fumes.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity**     **Oral, LD<sub>50</sub> :**     6600 mg/kg (rat);  
3440 mg/kg (guinea pig);

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Inhalation, LC<sub>50</sub>: No data available.  
Dermal, LD<sub>50</sub>: 5000 mg/kg (rabbit);

**Skin corrosion/irritation:** Full strength may be irritating to skin .  
10% in petrolatum produced no irritation in humans.

**Serious eye damage/irritation:** Full strength may be irritating to eyes.

**Respiratory or skin sensitization:** 10% in petrolatum produced no sensitization in humans.

**Germ cell mutagenicity:** No information available.

**Carcinogenicity:** Not listed as carcinogen by NTP, IARC, or OSHA.

**Reproductive toxicity:** No information available.

**STOT-single exposure:** No information available.

**STOT-repeated exposure:** No information available.

**Aspiration hazard:** No information available.

## SECTION 12: Ecological information

### 12.1 Toxicity

**Ecotoxicity** Fish, LC<sub>50</sub>: No data available.  
Crustacea, EC<sub>50</sub>: No data available.  
Algae, EC<sub>50</sub>: No data available.

### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment information is not available as chemical safety assessment not conducted.

### 12.6 Other adverse effects

No information available.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

In accordance with current regulations may be taken to waste disposal site or incineration plant after consultation with site operator and/or the responsible authority. Packaging that cannot be cleaned should be disposed of as product waste.

## SECTION 14: Transport information

### 14.1 Land transport (ADR)

Not regulated as dangerous goods.

### 14.2 Sea transport (IMDG)

Not regulated as dangerous goods.

### 14.3 Air transport (IATA)

Not regulated as dangerous goods.

### 14.4 Additional information

Prevent contamination of soil, ground- and surface water.

## SECTION 15: Regulatory information

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

#### EU regulation:

Authorisations: No information available.

Restrictions on use: No information available.

EINECS: CAS# 104-61-0 is listed in.

DSD (67/548/EEC): CAS# 104-61-0 is not listed in.

#### Other chemical regulation:

CAS No.	USA TSCA	Canada DSL	Australia AICS	Korea ECL	Japan ENCS	China IECSC
104-61-0	Listed	Listed	Listed	Listed	Listed	Listed

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this product.

## SECTION 16: Other information

### 16.1 Revision Information

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Date of the previous revision: Not applicable.

Date of this revision: 29/11/2012.

Revision summary: The first new SDS

## 16.2 Abbreviations and acronyms

<b>CLP:</b>	EU regulation (EC) No 1272/2008 on classification, labelling and packaging of chemical substances and mixtures.
<b>CAS:</b>	Chemical Abstracts Service (division of the American Chemical Society).
<b>EINECS:</b>	European Inventory of Existing Commercial Chemical Substances.
<b>DSD:</b>	Dangerous Substance Directive (67/548/EEC).
<b>TSCA:</b>	Toxic Substances Control Act, The American chemical inventory.
<b>DSL:</b>	Domestic Substances List, The Canadian chemical inventory.
<b>AICS:</b>	The Australian Inventory of Chemical Substances.
<b>ECL:</b>	Existing Chemicals List, the Korean chemical inventory.
<b>ENCS:</b>	Japanese Existing and New Chemical Substances.
<b>IECSC:</b>	Inventory of existing chemical substances in China.

## 16.3 Key literature references and sources for data

Provided by company.

## 16.4 Relevant R-phrases/H-statements

Not applicable. This product is not classified as hazardous substance/mixture.

## 16.5 Training advice

Provide adequate information, instruction and training for operators.

## 16.6 Declare to reader

The information in this SDS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This SDS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this SDS should make independent judgment for the applicability of this SDS under special conditions. In these special cases, we do not assume responsibility for the damage. According to REACH Article 31(5), the SDS shall be supplied in an official language of the Member State(s) where the substance or mixture is placed on the market, unless the recipient Member State(s) concerned provide otherwise. It should also be noted that this SDS is applicable to the countries with English as an official language.

----- End of the SDS -----