

SAFETY DATA SHEET**Product:** Coumarin 1000000046**Version:** 1**Section 1. Identification of the substance or the mixture and of the supplier****1.1 Product Identifier****Product identifier:** COUMARIN ; CAS: 91-64-5**Other identifiers:** Coumarin, Coumarinic anhydride, 1,2-Benzopyrone**1.2 Relevant identified uses of the substance of mixture and uses advised against****Product uses:** Ingredient for fragrances**1.3 Details of the supplier of the safety data sheet****Company name:** Eternis Fine Chemicals Ltd.**Company address:** 1004, Peninsula Towers, 10th Floor,
Peninsula Corporate Park, G.K. Marg,
Lower Parel, Mumbai-400013, India**Contact:** Salomi Samuel**E-Mail address:** sales@eternis.com**Company phone:** +91-22-66513400**1.4 Emergency telephone number****Emergency phone:** 1-800-535-5053 or +1-352-323-3500(China use 400-120-0761, Germany 0800-181-2924, and
Australia 1-300-366-961) (Infotrac Contract No. - 102229)**Section 2. Hazards identification****2.1 Classification of the substance or mixture****Classification accordance with 29 CFR 1910.1200(d)/US-GHS/OSHA:**

Acute Tox Oral. Category- 3 H301

Acute Tox Inhaled. Category- 3 H331

Acute Tox Dermal Category- 3 H311

Skin Sens. category -1 H317

Aquatic Chronic. Category – 2 H411

Classification according with Regulation (EC) No 1272/2008**Class and category of danger:**

Acute Tox Oral. Category- 3

Acute Tox dermal. Category- 3

Acute Tox Inhaled. Category- 3

Skin Sens. category -1

Aquatic Chronic . Category - 2

H301: Toxic if swallowed.

H311: Toxic in contact with skin.

H317: May cause an allergic skin reaction.

H331: Toxic if inhaled.

H411: Toxic to aquatic life with long lasting effects.

SAFETY DATA SHEET

Product: Coumarin 1000000046

Version: 1

2.2 Label elements

Classification accordance with 29 CFR 1910.1200(d)/US-GHS/OSHA:

Hazard pictogram(s):



Signal word: Danger

Hazard statements:

H301: Toxic if swallowed.

H311: Toxic in contact with skin.

H317: May cause an allergic skin reaction.

H331: Toxic if inhaled.

H411: Toxic to aquatic life with long lasting effects

Precautionary statements:

P233: Keep container tightly closed.

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

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

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

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P301+P312: IF SWALLOWED: Call a POISON CENTER / doctor if you feel unwell.

P333+P313: If skin irritation or rash occurs: Get medical advice / attention.

P363: Wash contaminated clothing before reuse.

P314: Get medical advice/attention if you feel unwell.

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

P332/313, If skin irritation occurs: Get medical advice/attention.

P501, Dispose of contents/container to approved disposal site, in accordance with local Regulations.

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Classification according with Regulation (EC) No 1272/2008

Signal word: Danger

Hazard statements:

H301: Toxic if swallowed.

H311: Toxic in contact with skin.

H317: May cause an allergic skin reaction.

H331: Toxic if inhaled. H411: Toxic to aquatic life with long lasting effects.

**SAFETY DATA SHEET**

Product: Coumarin 1000000046

Version: 1
:

M factor: chronic-1

Supplemental Information: None

Precautionary statements:

- P233: Keep container tightly closed.
- P261: Avoid breathing dust / fume / gas / mist / vapours / spray.
- P264: Wash thoroughly after handling..
- P270: Do no eat, drink or smoke when using this product.
- P271: Use only outdoors or in a well-ventilated area.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P273: Avoid release to the environment.
- P280: Wear protective gloves / protective clothing/eye protection / face protection.
- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P301+P312: IF SWALLOWED: Call a POISON CENTER / doctor if you feel unwell.
- P333+P313: If skin irritation or rash occurs: Get medical advice / attention.
- P363: Wash contaminated clothing before reuse
- P314: Get medical advice/attention if you feel unwell.
- P501: Dispose of contents/container to approved disposal site, in accordance with local Regulations

Pictograms:



Other hazards:
None

SAFETY DATA SHEET

Product: Coumarin 1000000046

Version: 1

Section 3. Composition / information on ingredients

3.1 Substances

| CAS No. | Chemical Name | % | GHS-Hazard |
|---------|-----------------|-------|------------------------|
| 91-64-5 | 1,2-Benzopyrone | <=100 | ATO3,ATD3,ATI3,SS1,AC2 |

Section 4. First-aid measures

4.1 Description of first aid measures

IF ON SKIN: Get medical attention if irritation develops and persists.

IF IN EYES: Rinse with water. Get medical attention if irritation develops and persists.

If inhaled: Move to fresh air. Call a physician if symptoms develop or persist.

If swallowed :Call a physician or poison control center immediately.

If vomiting occurs: keep head low so that stomach content doesn't get into the lungs.

4.2 Most important symptoms and effects, both acute and delayed

Causes eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

None expected, see Section 4.1 for further information.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable media: Powder. Water. Water spray. Foam. Carbon dioxide (CO₂).

Special hazards arising from the substance or mixture

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

5.2 Advice for fire fighters:

In the event of fire, cool tanks with water spray. Water runoff can cause environmental damage.
Protection of fire-fighters Wear suitable protective equipment.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment, Local authorities should be advised if significant spillages cannot be contained. Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Wear appropriate personal protective equipment. Ventilate closed spaces before entering them.

SAFETY DATA SHEET

Product: Coumarin 1000000046

Version: 1

6.2 Environmental precautions:

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Do not contaminate water.

6.3 Methods and material for containment and cleaning up:

Stop the flow of material, if this is without risk. Collect spillage. Prevent product from entering drains. Following product recovery, flush area with water. For waste disposal, see section 13

Reference to other sections: Also refer to sections 13.

Section 7. Handling and storage

7.1 Precautions for safe handling:

Local and general ventilation Provide adequate ventilation.

Precautions Do not taste or swallow. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

7.2 Conditions for safe storage, including any incompatibilities:

Suitable storage conditions Store locked up. Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Keep out of the reach of children.

Incompatible products For further information, please refer to section 10 of the SDS.

Safe packaging materials Keep in original container

7.3 Specific end use(s):

Ingredient for fragrances: Use in accordance with good manufacturing and industrial hygiene practices.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits: Not Applicable

8.2 Exposure Controls

Eye/Skin Protection

Wear protective gloves/eye protection/face protection

Environmental :

Prevent product from entering drains, Prevent further leakage or spillage if safe to do so If the product contaminates rivers and lakes or drains inform respective authorities

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

SAFETY DATA SHEET

Product: Coumarin 1000000046

Version: 1

Appearance: powder or white crystals

Odour: floral

Odour threshold: Not determined

pH: Not determined

Melting point/freezing point: Not determined

Initial boiling point and 297.00 °C

boiling range: 297.00 to 301.00 °C

Flash point 93.00 °C

Evaporation rate: Not determined

Flammability (solid, gas): Not determined

Upper/lower flammability or Not determined
explosive limits:

Vapour pressure: Not determined

Vapour density: 5.1 (Air-1)

Relative density: 0.9570 g/cm³ @ 20 °C

Solubility(ies): Insoluble

Partition coefficient: n- Not determined
octanol/water:

Auto-ignition temperature: Not determined

Decomposition Not determined
temperature:

Viscosity: Not determined

Explosive properties: None

Oxidising properties: Not determined

Congearing point 68.00 °C

9.2 Other information: None

Section 10. Stability and reactivity

10.1 Reactivity:

Presents no significant reactivity hazard, by itself or in contact with water.

10.2 Chemical stability:

May form explosive peroxides.

10.3 Possibility of hazardous reactions:

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid:

None

10.5 Incompatible materials:

Incompatible materials None known.

SAFETY DATA SHEET

Product: Coumarin 1000000046

Version: 1

10.6 Hazardous decomposition products:

No known

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute Toxicity: Based on available data the substance are toxic under cat.3.
 Acute Toxicity Oral LD50 (rat) 293 mg/kg bw
 Acute Toxicity Dermal LD50 (rat) 242 mg/kg
 Acute Toxicity Inhalation Not available

Skin corrosion/irritation: Based on available data the classification criteria are not met.
 Skin irritation Rabbit not irritating

Serious eye damage/irritation: Eye Irritant
 Eye irritation Rabbit Not irritating

Respiratory or skin sensitisation :
 Skin sensitisation sensitising

Germ cell mutagenicity: Based on available data the classification criteria are not met.
 Mutagenicity Ames test negative

Carcinogenicity: No data available

Reproductive toxicity: No data available

STOT-single exposure: Based on available data the classification criteria are not met.

STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Based on available data the classification criteria are not met.

Refer to Section 2 for additional information.

Section 12. Ecological information

SAFETY DATA SHEET

Product: Coumarin 1000000046

Version: 1

12.1 Toxicity

Aquatic toxicity: Based on available data the substance are Toxic to aquatic life with long lasting effects. Cat.2

| | | |
|------------------------------------|---------------|------------|
| EC50 (48 hrs) | Daphnia sp. | 8.012 mg/L |
| LC50 (96 hrs) Chronic value (NOEC) | Mysis shrimps | 0.056 mg/L |
| EC50 (96 hrs) Chronic value (NOEC) | Algae | 0.408 mg/L |

12.2 Persistence and degradability

Biodegradation: OECD Guideline 301 F Readily biodegradable

12.3 Bioaccumulative potential

Partition coefficient n-octanol /water (log Kow): Calculated Not Available
 Bioconcentration factor (BCF): Estimated Not Available

12.4 Mobility in soil

Adsorption coefficient: Log Koc at 20 °C 1.63

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

Not applicable

12.7 Additional information

None available

SAFETY DATA SHEET

Product: Coumarin 1000000046

Version: 1

Section 13. Disposal considerations

13.1 Waste treatment methods:

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport information

| <u>Informations</u> | <u>U.S. DOT</u> | <u>Canada TDG</u> | <u>ADR/RID</u> | <u>IMDG Code (ocean)</u> | <u>ICAO/IATA (air)</u> |
|---|---|-------------------|----------------|--------------------------|------------------------|
| 14.1 UN Number | - | - | 2811 | 2811 | 2811 |
| 14.2 UN Proper Shipping Name | TOXIC SOLID, ORGANIC, N.O.S. (COUMARIN) | | | | |
| 14.3 Transport hazard class(es) | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| 14.4 Packing Group | III | III | III | III | III |
| 14.5 Environmental hazards | Yes | | | | |
| 14.6 Special precautions for user | None additional | | | | |
| 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC | Not applicable | | | | |
| Marine Pollutant | Yes | | | | |

Section 15. Regulatory information

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

International Inventories

Country(s) or region Inventory name On inventory (yes/no)*

Australia Australian Inventory of Chemical Substances (AICS) Yes

Canada Domestic Substances List (DSL) Yes

Canada Non-Domestic Substances List (NDSL) No

China Inventory of Existing Chemical Substances in China (IECSC) Yes

Europe European Inventory of Existing Commercial Chemical Yes

Europe European List of Notified Chemical Substances (ELINCS) No

SAFETY DATA SHEET

Product: Coumarin 1000000046

Version: 1

Japan Inventory of Existing and New Chemical Substances (ENCS) Yes

Korea Existing Chemicals List (ECL) Yes

New Zealand New Zealand Inventory Yes

Philippines Philippine Inventory of Chemicals and Chemical Substances Yes

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Section 16. Other information

Key to revisions:

Not applicable

Key to abbreviations:

Not applicable

The information in this safety data sheet is to the best of our knowledge, true and accurate but all data, instructions, recommendations and/or suggestions are made without guarantee.