#### Waldeck GmbH & Co KG

# **Safety Data Sheet**



according to Regulation (EC) No 1907/2006

### Coumarin

Revision date: 30.05.2017 Product code: 4F-191 Page 1 of 8

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

#### 1.1. Product identifier

Coumarin

CAS No: 91-64-5 EC No: 202-086-7

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

#### Use of the substance/mixture

Use as laboratory reagent

## 1.3. Details of the supplier of the safety data sheet

Company name: Waldeck GmbH & Co KG

**Division Chroma** 

Street: Havixbecker Str. 62
Place: D-48161 Münster

Post-office box: 410180

D-48065 Münster

Telephone: +49(0)180/2247662 Telefax: +49(0)180/1247662

Responsible Department: Labor

Mo. – Do.: 08.00 – 17.00 Uhr, Fr.: 08.00 – 15.00 Uhr

**1.4. Emergency telephone** +49(0)180/2247662

number:

#### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

# Regulation (EC) No. 1272/2008

Hazard categories:

Acute toxicity: Acute Tox. 3 Hazard Statements: Toxic if swallowed.

#### 2.2. Label elements

# Regulation (EC) No. 1272/2008

Signal word: Danger

Pictograms:



# **Hazard statements**

H301 Toxic if swallowed.

# **Precautionary statements**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P330 Rinse mouth. P405 Store locked up.

# 2.3. Other hazards

No information available.

## **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

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Sum formula: C9H6O2 Molecular weight: 146,14 g/mol

#### Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification according to Regulation			
91-64-5	Coumarin			100 %
	202-086-7			
	Acute Tox. 3; H301			

Full text of H and EUH statements: see section 16.

#### **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

#### **General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

Provide fresh air. Medical treatment necessary.

#### After contact with skin

Wash with plenty of water. Immediately remove any contaminated clothing, shoes or stockings. Medical treatment necessary.

## After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

## After ingestion

Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Call a physician immediately.

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

No information available.

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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

## Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder

# 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Hazardous combustion products

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

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

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Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid generation of dust. Do not breathe dust.

## Advice on protection against fire and explosion

No special fire protection measures are necessary.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

#### Advice on storage compatibility

No special measures are necessary.

#### Further information on storage conditions

storage temperature: at room temperature

## 7.3. Specific end use(s)

Use as laboratory reagent

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### 8.2. Exposure controls



# Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

# Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

#### Eye/face protection

Wear eye/face protection.

# **Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is

# COMP.

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recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Wear suitable protective clothing.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state: solid
Colour: colourless
Odour: characteristic

Test method

pH-Value: not determined

Changes in the physical state

Melting point:  $68-71\,^{\circ}\mathrm{C}$  Initial boiling point and boiling range:  $298-302\,^{\circ}\mathrm{C}$  Flash point:  $162\,^{\circ}\mathrm{C}$ 

**Flammability** 

Solid: not determined
Gas: not applicable

Lower explosion limits: not determined
Upper explosion limits: not determined

**Auto-ignition temperature** 

Solid: not determined Gas: not applicable

Decomposition temperature: not determined

**Oxidizing properties** 

Not oxidizing.

Vapour pressure: 1,3 hPa

(at 106 °C)

Density: 0,935 g/cm³ Water solubility: 1,7 g/L

(at 20 °C)

Solubility in other solvents

not determined

Partition coefficient: not determined

Vapour density: not determined

Evaporation rate: not determined

9.2. Other information

Solid content: not determined

## **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

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## 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

Violent reaction with: Oxidising agent, strong. Strong acid. Strong alkali.

#### 10.4. Conditions to avoid

Keep away from heat.

#### 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

## **Acute toxicity**

CAS No	Chemical name						
	Exposure route	Dose	Species	Source	Method		
91-64-5	Coumarin						
	oral	LD50 293 mg/kg	Rat	(RTECS)			

### Additional information on tests

Special hazards arising from the substance or mixture. Classification according to Regulation (EC) No. 1272/2008 [CLP]: dangerous health properties.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

The product is not: Ecotoxic.

The product is not. Ecotoxic.							
CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
91-64-5	Coumarin						
	Acute crustacea toxicity	EC50 mg/l	30,6	I	Daphnia pulex (water flea)		

# 12.2. Persistence and degradability

The product has not been tested.

# 12.3. Bioaccumulative potential

The product has not been tested.

# Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
91-64-5	Coumarin	1,39

#### 12.4. Mobility in soil

The product has not been tested.

## 12.5. Results of PBT and vPvB assessment

The product has not been tested.

#### 12.6. Other adverse effects

No information available.

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#### **Further information**

Avoid release to the environment.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

# **SECTION 14: Transport information**

# Land transport (ADR/RID)

**14.1. UN number:** UN 2811

14.2. UN proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (2H-1-BENZOPYRAN-2-ON)

14.3. Transport hazard class(es):6.114.4. Packing group:IIIHazard label:6.1



Classification code: T2
Special Provisions: 274 614
Limited quantity: 5 kg
Excepted quantity: E1
Transport category: 2
Hazard No: 60
Tunnel restriction code: E

Inland waterways transport (ADN)

**14.1. UN number:** UN 2811

**14.2. UN** proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (2H-1-BENZOPYRAN-2-ON)

14.3. Transport hazard class(es):6.114.4. Packing group:IIIHazard label:6.1



Classification code: T2

Special Provisions: 274 614 802
Limited quantity: 5 kg
Excepted quantity: E1

Marine transport (IMDG)

**14.1. UN number:** UN 2811

14.2. UN proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (2H-1-BENZOPYRAN-2-ON)

14.3. Transport hazard class(es):6.114.4. Packing group:IIIHazard label:6.1

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Special Provisions: 223, 274
Limited quantity: 5 kg
Excepted quantity: E1
EmS: F-A, S-A

Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 2811

14.2. UN proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (2H-1-BENZOPYRAN-2-ON)

14.3. Transport hazard class(es):6.114.4. Packing group:IIIHazard label:6.1



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A3 A5

10 kg

Y645

Excepted quantity:

E1

IATA-packing instructions - Passenger:670IATA-max. quantity - Passenger:100 kgIATA-packing instructions - Cargo:677IATA-max. quantity - Cargo:200 kg

#### 14.6. Special precautions for user

No information available.

# 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

# **SECTION 15: Regulatory information**

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

## **EU** regulatory information

Information according to 2012/18/EU H2 ACUTE TOXIC

(SEVESO III):

#### **Additional information**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

## National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water contaminating class (D): 1 - slightly water contaminating

# 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

#### **SECTION 16: Other information**



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## Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

# Relevant H and EUH statements (number and full text)

H301 Toxic if swallowed.

#### **Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singulary responsible for adhering to existing laws and regulations.