

# **Aaron Chemistry GmbH**

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 Version 5.0 Revision Date 14.12.2012 Print Date 28.11.2016 GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

1.	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING		
1.1	Product identifiers Product name 4'-Hydroxy-4-biphenylcarbonitrile		
		Chemistry GmbH 2-93-2	
1.2	Relevant identified uses of the substance or mixture and uses advised against		
	Identified uses : Labo	atory chemicals, Manufacture of substances	
1.3	Details of the supplier of the safety data sheet		
	Company	: Aaron Chemistry GmbH : Am Fischweiher 41-43 : D-82481 Mittenwald : Germany	
	Telephone: Fax: email:	: +49-8823-917521 : +49-8823-917523 : info@aaron-chemistry.de	
1.4	Emergency telephone number	:+49-8823-917521	

#### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] Acute toxicity, Inhalation (Category 4) Acute toxicity, Dermal (Category 4) Acute toxicity, Oral (Category 4) Skin irritation (Category 2) Eye irritation (Category 2) Specific target organ toxicity - single exposure (Category 3)

Classification according to EU Directives 67/548/EEC or 1999/45/EC Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.

#### 2.2 Label elements

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



Warning	
Harmful if swallowed.	
Harmful in contact with skin.	
Causes skin irritation.	
Causes serious eye irritation.	
Harmful if inhaled.	
May cause respiratory irritation.	

Precautionary statement(s) P261 P280 P305 + P351 + P338	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wear protective gloves/ protective clothing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
Supplemental Hazard Statements	none			
According to European Directive 67/548/EEC as amended. Hazard symbol(s)				
R-phrase(s) R20/21/22 R36/37/38	Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.			
S-phrase(s) S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.			
S36	Wear suitable protective clothing.			
Other hazards - none				
COMPOSITION/INFORMATION ON INGREDIENTS				

#### 3.1 Substances Formula

2.3

3.

C<sub>13</sub>H<sub>9</sub>NO 195,22 g/mol

Component	

Concentration 4'-Hydroxy-4-biphenylcarbonitrile CAS-No. 19812-93-2 \_

#### 4. FIRST AID MEASURES

Molecular Weight

#### 4.1 Description of first aid measures

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

## In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

- 4.2 Most important symptoms and effects, both acute and delayed To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
- 4.3 Indication of any immediate medical attention and special treatment needed no data available

#### 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

#### Carbon oxides, nitrogen oxides (NOx), Hydrogen cyanide (hydrocyanic acid)

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 5.4 Further information no data available

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

#### 6.2 Environmental precautions

Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

### 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.

#### **7.2 Conditions for safe storage, including any incompatibilities** Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## 7.3 Specific end use(s) no data available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

#### Components with workplace control parameters

#### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

#### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### 9. PHYSICAL AND CHEMICAL PROPERTIES 9.1 Information on basic physical and chemical properties Form: solid a) Appearance b) Odour no data available no data available C) Odour Threshold d) pH no data available Melting point/freezing Melting point/range: 191 - 195 °C - lit. e) point Initial boiling point and no data available f) boiling range g) Flash point no data available h) Evaporation rate no data available i) Flammability (solid, gas) no data available Upper/lower no data available j) flammability or explosive limits k) Vapour pressure no data available Vapour density no data available I) no data available m) Relative density n) Water solubility no data available o) Partition coefficient: nno data available octanol/water p) Auto-ignition no data available temperature

- q) Decomposition no data available temperature
  r) Viscosity no data available
  s) Explosive properties no data available
- t) Oxidizing properties no data available

# 9.2 Other safety information no data available

### 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity no data available

- 10.2 Chemical stability no data available
- 10.3 Possibility of hazardous reactions no data available
- **10.4 Conditions to avoid** no data available

#### 10.5 Incompatible materials

Strong oxidizing agents

**10.6 Hazardous decomposition products** Other decomposition products - no data available

#### 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity no data available

Skin corrosion/irritation

no data available

## Serious eye damage/eye irritation no data available

Respiratory or skin sensitization no data available

#### Germ cell mutagenicity

no data available

#### Carcinogenicity

## IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### **Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure** Inhalation - May cause respiratory irritation.

## Specific target organ toxicity - repeated exposure no data available

#### Aspiration hazard

no data available

#### Potential health effects

Inhalation	Harmful if inhaled. Causes respiratory tract irritation.	
Ingestion	Harmful if swallowed.	
Skin	Harmful if absorbed through skin. Causes skin irritation.	
Eyes	Causes serious eye irritation.	

#### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### **Additional Information**

RTECS: Not available

### 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity no data available

- 12.2 Persistence and degradability no data available
- **12.3 Bioaccumulative potential** no data available
- 12.4 Mobility in soil no data available

## 12.5 Results of PBT and vPvB assessment no data available

# **12.6 Other adverse effects** no data available

### 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Contaminated packaging

Dispose of as unused product.

14.	TRANSPORT INFORMATION				
14.1	<b>UN number</b> ADR/RID: -	IMDG: -	IATA: -		
14.2	UN proper shipping nameADR/RID:Not dangerous goodsIMDG:Not dangerous goodsIATA:Not dangerous goods				
14.3	Transport hazard class(es) ADR/RID: -	IMDG: -	IATA: -		
14.4	<b>Packaging group</b> ADR/RID: -	IMDG: -	IATA: -		
14.5	Environmental hazards ADR/RID: no	IMDG Marine Pollutant: no	IATA: no		
14.6	Special precautions for user no data available				
15.	REGULATORY INFORMATION				
	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.				
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture no data available				
15.2	Chemical Safety Assessment no data available				
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#### 16. OTHER INFORMATION

#### Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Aaron Chemistry Gmbh shall not be held liable for any damage resulting from handling or from contact with the above product.