

Reviewed on 05/18/2011

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

- · Product identifier
- Trade name: 2,5-Dihydroxybenzoic acid

· Article number: 201346

· CAS Number: 490-79-9

· EC number: 207-718-5

- · Application of the substance / the preparation Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Bruker Daltonik GmbH

Fahrenheitstrasse 4

D-28359 Bremen / Germany Tel.: +49(421) 2205-0  $Fax: +49(421)\ 2205-100$ 

E-mail: care@bdal.de · Information department:

Bruker Daltonik GmbH Tel.: +49 (421) 2205-240

· Emergency telephone number:

Emergency Phone: +61 3 9474 7000; 1800 278537; +49 421 2205 0

Tel.: +49 (361)730730

Gemeinsames Giftinformationszentrum (GGIZ) (Posion Information Center)

#### 2 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description:

490-79-9 gentisic acid

- · Identification number(s):
- · EC number: 207-718-5

#### 3 Hazards identification

· Classification of the substance or mixture



GHS07

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R22: Harmful if swallowed.



Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

- · Label elements
- · GHS label elements

The substance is classified and labelled according to the Globally Harmonized System (GHS).

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# Material Safety Data Sheet acc. to ISO/DIS 11014

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# Trade name: 2,5-Dihydroxybenzoic acid

· Hazard pictograms



- · Signal word Warning
- · Hazard-determining components of labelling:

2,5-Dihydroxybenzoic acid

· Hazard statements

Harmful if swallowed.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

· Precautionary statements

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

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

Store locked up.

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

- · Classification system
- · NFPA ratings (scale 0-4)



Health = 2 Fire = 0Reactivity = 0

#### 4 First aid measures

- General information Immediately remove any clothing soiled by the product.
- · After inhalation

Supply fresh air.

Seek medical treatment in case of complaints.

· After skin contact

Immediately wash with water and soap and rinse thoroughly.

Seek medical advice.

- · After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing

Rinse the mouth with water immediately

Immediately call a doctor.

#### 5 Firefighting measures

· Suitable extinguishing agents

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents Water with full jet.
- · Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- · Protective equipment: Wear self-contained respiatory protective device.
- · Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

USA

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#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Avoid formation of dust.

Wear protective equipment. Keep unprotected persons away.

Avoid contact with eyes and skin.

- Environmental precautions: Do not allow product to reach sewage system or any water course.
- · Methods and material for containment and cleaning up:

Pick up mechanically.

Avoid causing dust.

Ensure adequate ventilation.

· Reference to other sections

Clean the accident area carefully.

See Section 8 for information on personal protection equipment.

## 7 Handling and storage

- · Handling
- · Precautions for safe handling

Keep receptacles tightly sealed.

Prevent formation of dust.

Prevent formation of aerosols.

Provide suction extractors if dust is formed.

Avoid contact with the eyes and skin.

Keep eye irrigation utensils (bottle) ready for use at place of work.

The usual precautionary measures for handling chemicals must be observed.

- · Information about protection against explosions and fires: No special measures required.
- · Storage
- · Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Protect from dampness and humidity.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well ventilated area.

· Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Components with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the creation were used as basis.
- · Personal protective equipment
- · General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Immediately remove all soiled and contaminated clothing

Store protective clothing separately.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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· Recommended filter device for short term use:

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Filter P1

· Protection of hands:

Protective gloves.



Only use chemical-protective gloves with CE-labelling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Preventive skin protection by use of skin-protecting agents is recommended.

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

PVC or PE gloves

- · As protection from splashes gloves made of the following materials are suitable: PVC or PE gloves
- · Eye protection:



Tightly sealed goggles.

· Body protection: Protective work clothing.

#### 9 Physical and chemical properties

- · General Information
- · Appearance:

Form: Crystalline
Color: Light yellow
Odor: Characteristic

· Change in condition

Melting point/Melting range: 204 - 208°C (399 - 406 °F) (lit.)

Boiling point/Boiling range: undetermined

· Flash point: Not applicable

· Flammability (solid, gaseous) Product is not flammable.

• Danger of explosion: Product does not present an explosion hazard.

· **Density:** Not determined

· Solids content: 100.0 %

• Other information No further relevant information available.

- USA

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### 10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Incompatible materials:

strong oxidizing agents

strong bases

Acid chlorides

Acid anhydrides

· Hazardous decomposition products:

in the event of fire:

Carbon monoxide and carbon dioxide

### 11 Toxicological information

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

#### 490-79-9 2,5-Dihydroxybenzoic acid

Oral LD50 4500 mg/kg (Mouse) 800 mg/kg (rat)

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Subacute to chronic toxicity:

Germ cell mutagenicity:

Genotoxicity in vitro - Human - lymphocyte

DNA inhibition

Carcinogenic toxicity

no carcinogenic effect admits

Reproductive toxicity:

animal studies indicate reproductive toxic effect

· Additional toxicological information:

Harmful if swallowed.

Possibly harmful by inhalation and harmful if absorbed through the skin.

Warning, substance not yet fully tested

#### 12 Ecological information

- · Acquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Ecotoxical effects: Not determined
- · Additional ecological information:
- · General notes:

Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water.

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

#### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation Must be specially treated adhering to official regulations.

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- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

· UN-Number	
· DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
·Class	Void
Packing group	
DOT, ADR, IMDG, IATA	Void
Special precautions for user	Not applicable.
· Transport in bulk according to Annex	: II of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
· UN ''Model Regulation'':	_

### 15 Regulatory information

· Cancerogenity categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

· MAK (German Maximum Workplace Concentration)

Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

· GHS label elements

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· Hazard pictograms



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· Signal word Warning

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#### · Hazard statements

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Specific treatment (see on this label).

Store locked up.

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

- · National regulations
- · Water hazard class: Water danger class 3 (Self-assessment): extremely hazardous for water.
- Sara

#### · Section 355 (Exremely hazardous substances):

Substance is not listed.

### · Section 313 (Specific toxic chemical listings):

Substance is not listed.

#### · TSCA (Toxic Substances Control Act):

Substance is listed.

#### · Chemicals known to cause cancer:

Substance is not listed.

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Changes made since last issue dated 21.08.2007 at the following points: \*

#### · Department issuing MSDS:

IGG-AD Ingenieurbüro für Gefahrstoff- und Gefahrgutberatung

Bismarckstraße 10

D-68623 Lampertheim

Fax: 0049-(0)6206-58422 http://www.igg-ad.de info@igg-ad.de

· Contact:

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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)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

#### \* Data compared to the previous version altered.