Safety data sheet
According to 91/155 EEC and NOHSC

Printing date 07.09.2011 Revision: 07.09.2011

Hazardous according to criteria of Australian Safety and Compensation Council

*
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

· **Informing 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. Designation:**
490-79-9 2,5-Dihydroxybenzoic 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.

· **Label elements**
· **GHS label elements**
The substance is classified and labelled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**

GHS07

· **Signal word** Warning

· **Hazard-determining components of labelling:**
2,5-Dihydroxybenzoic acid

(Contd. on page 2)

Safety data sheet
According to 91/155 EEC and NOHSC

Printing date 07.09.2011 Revision: 07.09.2011

Trade name: 2,5-Dihydroxybenzoic acid

(Contd. of page 1)

· **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.

4 First aid measures

· **General information** Instantly remove any clothing soiled by the product.
· **After inhalation**
Supply fresh air.
Seek medical treatment in case of complaints.
· **After skin contact**
Instantly 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 doctor.
· **After swallowing**
Rinse the mouth with water immediately
Instantly call for doctor.

5 Firefighting measures

· **Suitable extinguishing agents**
CO_2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
· **For safety reasons unsuitable extinguishing agents** Water with a full water 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 breathing apparatus.
· **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Avoid causing 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 water bodies.
· **Methods and material for containment and cleaning up:**
Collect mechanically.
Collect in a suitable container and dispose of as described at paragraph 13.
Avoid causing dust.
Ensure adequate ventilation.
· **Reference to other sections**
Clean the accident area carefully.

(Contd. on page 3)

Safety data sheet
According to 91/155 EEC and NOHSC

Printing date 07.09.2011 Revision: 07.09.2011

Trade name: 2,5-Dihydroxybenzoic acid

(Contd. of page 2)

See Section 8 for information on personal protection equipment.

7 Handling and storage

· **Handling**
· **Precautions for safe handling**
Keep containers 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 containers:**
Store only in the original container.
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 containers.
Store container in a well ventilated position.
· **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 compilation were used as basis.
· **Personal protective equipment**
· **General protective and hygienic measures**
Keep away from foodstuffs, beverages and food.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
Take off immediately all contaminated clothing
Store protective clothing separately.
· **Breathing equipment:**
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
· **Recommended filter device for short term use:**

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.

(Contd. on page 4)

Safety data sheet
According to 91/155 EEC and NOHSC

Printing date 07.09.2011 Revision: 07.09.2011

Trade name: 2,5-Dihydroxybenzoic acid

(Contd. of page 3)

· **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 safety glasses.

· **Body protection:** Protective work clothing.

9 Physical and chemical properties

· **General Information**	
· **Appearance:**	
Form:	Crystalline
Colour:	Light yellow
· **Odour:**	Characteristic
· **Change in condition**	
Melting point/Melting range:	204 - 208°C (399 - 406 °F) (lit.)
Boiling point/Boiling range:	Not determined
· **Flash point:**	Not applicable
· **Inflammability (solid, gaseous)**	Product is not inflammable.
· **Danger of explosion:**	Product is not explosive.
· **Density**	Not determined
· **Solids content:**	100.0 %
· **Other information**	No further relevant information available.

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

(Contd. on page 5)

Safety data sheet
According to 91/155 EEC and NOHSC

Printing date 07.09.2011 Revision: 07.09.2011

Trade name: 2,5-Dihydroxybenzoic acid

(Contd. of page 4)

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:** Irritant effect.
· **Sensitization:** No sensitizing effect 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

12 Ecological information

· **Acquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behaviour 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 bodies or sewage system, even in small quantities.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation** Must be specially treated under adherence to official regulations.

· European waste catalogue	
18 00 00	WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)
18 02 00	wastes from research, diagnosis, treatment or prevention of disease involving animals
18 02 05*	chemicals consisting of or containing dangerous substances

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

14 Transport information

· UN-Number	
· ADR, ADN, IMDG, IATA	Void
· UN proper shipping name	
· ADR, ADN, IMDG, IATA	Void

(Contd. on page 6)

Safety data sheet
According to 91/155 EEC and NOHSC

Printing date 07.09.2011 *Revision: 07.09.2011*

Trade name: 2,5-Dihydroxybenzoic acid

(Contd. of page 5)

· **Transport hazard class(es)**	
· **ADR, ADN, IMDG, IATA**	
· **Class**	Void
· **Packing group**	
· **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

· **Australian Inventory of Chemical Substances**

Substance is listed.

· **Standard for the Uniform Scheduling of Drugs and Poisons**

Substance is not listed.

· **GHS label elements**
The substance is classified and labelled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**

GHS07

· **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.

· **National regulations**

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

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

(Contd. on page 7)

Safety data sheet
According to 91/155 EEC and NOHSC

Printing date 07.09.2011 *Revision: 07.09.2011*

Trade name: 2,5-Dihydroxybenzoic acid

(Contd. of page 6)

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

· **Department issuing data specification sheet:**
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:**
Dr. U. Prinz (u.prinz@igg-ad.de)
Dipl.-Chem. H. Hinse (heidrun.hinse@igg-ad.de)
· **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
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
· *** Data compared to the previous version altered.**