



CONSEIL DE L'EUROPI

Phenobarbital

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 03/04/2023 Version: 1.0

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

1.1. Product identifier Product form : Substance Substance name : Phenobarbital 201600704 Product code ÷ : Phenobarbital, salts, hydrates, isomers and impurities where applicable Synonyms 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses : The product is intended for research, analysis and scientific education. Main use category Use of the substance/mixture : For professional use only Function or use category : Laboratory chemicals 1.2.2. Uses advised against Restrictions on use : Do not use : Ingestion, Inhalation, Dermal 1.3. Details of the supplier of the safety data sheet

European Directorate for the Quality of Medicines & Healthcare EDQM, Council of Europe 7, Allée Kastner, CS30026 F- 67081 Strasbourg France T +33(0)388412035 - F +33(0)388412771 sds@edqm.eu - www.edqm.eu

Emergency number

1.4. Emergency telephone number

: +33(0)390215608

SECTION 2: Hazards identification 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Acute toxicity (oral), Category 3 H301 Specific target organ toxicity - Single exposure, Category 3, Narcosis H336 Full text of H- and EUH-statements: see section 16 Adverse physicochemical, human health and environmental effects Expert judgement and weight of evidence determination. 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP)

GHS06 Signal word (CLP) : Danger Hazard statements (CLP) H301 - Toxic if swallowed. H336 - May cause drowsiness or dizziness. Precautionary statements (CLP) : P301+P310 - IF SWALLOWED: Immediately call a doctor. P261 - Avoid breathing dust, vapours.

Labelling according to: exemption for inner packaging where the contents do not exceed 10ml

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Hazard pictograms (CLP)



·

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Phenobarbital	-	≤ 100	Acute Tox. 3 (Oral), H301 (ATE=50 mg/kg bodyweight) STOT SE 3, H336
Full text of H- and EUH-statements: see section 16			·

- --

3.2. Mixtures

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation First-aid measures after skin contact	 Move to fresh air. Allow affected person to breathe fresh air. Wipe off as much as possible (using a clean, soft, absorbent material). Wash with plenty of water/
First-aid measures after eye contact First-aid measures after ingestion	 Rinse with water while holding the eyes wide open. Rinse mouth. Immediately call a POISON CENTER/doctor. Specific medical surveillance.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	 Insufficient data available. Insufficient data available. Insufficient data available. Insufficient data available. Symptoms may include dizziness, headache, nausea and loss of coordination.

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

Get medical advice/attention. If possible show this sheet, if not available show packaging or label. Active substance. Pharmaceutical.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media :	Extinguishing blanket.
5.2. Special hazards arising from the substan	ice or mixture
Fire hazard :	See Heading 2.2.
5.3. Advice for firefighters	
Firefighting instructions :	Use extinguishing media appropriate for surrounding fire.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 6: Accidental release measu	ures
6.1. Personal precautions, protective equi	ipment and emergency procedures
General measures	: Avoid any direct contact with the product. Do not breathe dust/fume/gas/mist/vapours/spray.
6.1.1. For non-emergency personnel	
No additional information available	
6.1.2. For emergency responders	
No additional information available	
6.2. Environmental precautions	
No additional information available	
6.3. Methods and material for containmen	t and cleaning up
Methods for cleaning up	: Ensure waste is collected and contained. Clean thoroughly.
6.4. Reference to other sections	
No additional information available	

SECTION 7: Handling and storage	<u>)</u>
7.1. Precautions for safe handling	
Additional hazards when processed	: The attention of the user is drawn to the risks possibly incurred by using the product for any other purpose than that for which it was intended.
Precautions for safe handling Hygiene measures	Material should be handled with caution. Avoid any direct contact with the product.Handle in accordance with good industrial hygiene and safety procedures.
7.2. Conditions for safe storage, inclu	Iding any incompatibilities
Technical measures Storage conditions	Comply with applicable regulations.Store locked up.

7.3. Specific end use(s)

See Heading 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Keep in a well-ventilated room. Use only in a exhaust booth with integrated air filter. High efficiency particulate air filter (HEPA filter).

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection: Safety glasses. DIN EN 166

8.2.2.2. Skin protection

Skin and body protection: Use chemically protective clothing. DIN EN 13034

Hand protection:

Chemically resistant protective gloves. ISO 374-1

8.2.2.3. Respiratory protection

Respiratory protection:

Dust production: dust mask with filter type P3. DIN EN 140 & 149. Liquid product : Aerosol mask. Wear breathing apparatus if exposed to vapours/dusts/aerosols

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties Physical state : Solid Colour : Not available Appearance : Powder Odour : Not applicable. Odour threshold : Not available Melting point : Not available Freezing point : Not available : Not available Boiling point Flammability : Not available Explosive limits : Not applicable Lower explosion limit : Not applicable Upper explosion limit : Not applicable Flash point : Not applicable : Not applicable Auto-ignition temperature : Not available Decomposition temperature : Not available pН pH solution : Not available Viscosity, kinematic : Not applicable Solubility : Water: 0,1 - 1 g/l Partition coefficient n-octanol/water (Log Kow) : Not available

Vapour pressure

Density

Vapour pressure at 50°C

03/04/2023 (Issue date)

: Not available : Not available

: Not available

: Not available

: Not applicable

: Not available

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

None under normal use. See Section 7.

10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation) Skin corrosion/irritation	 Toxic if swallowed. Not classified Not classified Not classified (Lack of data)
Serious eye damage/irritation	: Not classified (Lack of data)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Lack of data)
Carcinogenicity	: Not classified (Conclusive but not sufficient for classification)
Phenobarbital	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Not classified (Further details: Acute toxicity)
STOT-single exposure	: May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified (Further details: STOT-single exposure)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information 12.1. Toxicity

Ecology - general

: Hazardous waste. Use suitable disposal containers.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Hazardous to the aquatic environment, short-term : Not classified (acute) Hazardous to the aquatic environment, long-term : Not classified (chronic)	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Endocrine disrupting properties	
No additional information available	
12.7. Other adverse effects	
No additional information available	

SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Regional legislation (waste) Product/Packaging disposal recommendations	 Dispose in a safe manner in accordance with local/national regulations. Do not empty into drains, dispose of this material and its container at hazardous or special

waste collection point.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA ADR IMDG 14.1. UN number or ID number UN 2811 UN 2811 UN 2811 UN 2811 LILL COMPAREMENTS UN 2011D UN 2

14.2. UN proper snipping name		
TOXIC SOLID, ORGANIC, N.O.S.	TOXIC SOLID, ORGANIC, N.O.S.	Toxic solid, organic, n.o.s.
Transport document description	•	
UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, III, (E)	UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, III	UN 2811 Toxic solid, organic, n.o.s., 6.1, III
14.3. Transport hazard class(es)		
6.1	6.1	6.1
6	6	6
14.4. Packing group		
111	Ш	III

ΙΑΤΑ

UN 2811

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ADR	IMDG	ΙΑΤΑ
14.5. Environmental hazards		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available		

14.6. Special precautions for user

Overland transport

Classification code (ADR)	:	T2
Special provisions (ADR)	:	274, 614
Limited quantities (ADR)	:	5kg
Excepted quantities (ADR)	:	E1
Packing instructions (ADR)	:	P002, IBC08, LP02, R001
Special packing provisions (ADR)	:	B3
Mixed packing provisions (ADR)	:	MP10
Portable tank and bulk container instructions (ADR)	÷	Т1
Portable tank and bulk container special provisions	÷	TP33
(ADR)		
Tank code (ADR)	:	SGAH, L4BH
Tank special provisions (ADR)	:	TU15, TE19
Vehicle for tank carriage	÷	AT
Transport category (ADR)	÷	2
Special provisions for carriage - Bulk (ADR)		- VC1, VC2, AP7
Special provisions for carriage - Loading, unloading		
and handling (ADR)	•	01.0,0120
Special provisions for carriage - Operation (ADR)		S9
Hazard identification number (Kemler No.)		60
Orange plates		
		60 2811
Tunnel restriction code (ADR)	:	E
Transport by sea		
Special provisions (IMDG)	:	223, 274
Limited quantities (IMDG)	:	5 kg
Excepted quantities (IMDG)	:	E1
Packing instructions (IMDG)	:	P002
IBC packing instructions (IMDG)	:	IBC08
IBC special provisions (IMDG)	:	B3
Tank instructions (IMDG)	:	T1
Tank special provisions (IMDG)	:	TP33
EmS-No. (Fire)	:	F-A
EmS-No. (Spillage)	:	S-A
Stowage category (IMDG)	:	A
Properties and observations (IMDG)	:	Toxic if swallowed, by skin contact or
Air transport		
PCA Excepted quantities (IATA)	:	E1

PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provisions (IATA)

: Y645

: 10kg

: 670

: 677

: 6L

: 100kg

: 200kg : A3, A5 by inhalation.

ERG code (IATA)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not applicable.

POP Regulation (Persistent Organic Pollutants)

Not applicable.

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
H301	Toxic if swallowed.
H336 May cause drowsiness or dizziness.	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

Safety Data Sheet (SDS), EU

DISCLAIMER OF LIABILITY The EDQM has created this SDS as a downstream user for regulatory compliance to rules applicable to chemicals only. This article is intended only for small-volume laboratory analysis and other routine testing prescribed in the pharmacopoeia or EDQM study protocol, under controlled conditions and by professionals only. Any other use of this article or the SDS information is the sole responsibility of the user. This substance is present in articles in quantities totalling under 10 kg per year. There is no human or environmental exposure under intended and foreseeable conditions of use. The user has the responsibility for handling, storage, use conditions and disposal of this article and for any use of the information in this SDS. The information has been obtained from suppliers and is without any warranty, express or implied, regarding its correctness. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the article.