

Revision date: 24-Apr-2015 Version: 4.0 Page 1 of 10

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Identifier

Material Name: Phenytoin Sodium Capsules (25, 30mg, or 50mg)

Trade Name: Dilantin®; Epanutin®

Chemical Family: Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Pharmaceutical product used for seizures and epilepsy.

Details of the Supplier of the Safety Data Sheet

Pfizer Inc
Pfizer Pharmaceuticals Group
235 East 42nd Street
New York, New York 10017

1-800-879-3477

Emergency telephone number:
CHEMTREC (24 hours): 1-800-424-9300
Contact E-Mail: pfizer-MSDS@pfizer.com

Pfizer Ltd Ramsgate Road Sandwich, Kent CT13 9NJ United Kingdom +00 44 (0)1304 616161

Emergency telephone number:

International CHEMTREC (24 hours): +1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS - Classification

Reproductive Toxicity: Category 1B Carcinogenicity: Category 2

EU Classification:

EU Indication of danger: Carcinogenic: Category 3

Toxic to Reproduction: Category 2

EU Risk Phrases:

R40 - Limited evidence of a carcinogenic effect R61 - May cause harm to the unborn child.

Label Elements

Signal Word: Danger

Hazard Statements: H351 - Suspected of causing cancer

H360D - May damage the unborn child

Precautionary Statements: P202 - Do not handle until all safety precautions have been read and understood

P281 - Use personal protective equipment as required

P308 + P313 - IF exposed or concerned: Get medical attention/advice

P405 - Store locked up

P501 - Dispose of contents/container in accordance with all local and national regulations

Material Name: Phenytoin Sodium Capsules (25, 30mg, or Page 2 of 10

50mg)

Revision date: 24-Apr-2015 Version: 4.0



Other Hazards
Australian Hazard Classification
(NOHSC):

No data available

Hazardous Substance. Non-Dangerous Goods.

Note: This document has been prepared in accordance with standards for workplace safety, which

requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases.

Your needs may vary depending upon the potential for exposure in your workplace.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Phenytoin Sodium	630-93-3	211-148-2	Carc.Cat3;R40 Repr.Cat.2;R61 Xn;R22	Acute Tox. 4 (H302) Carc. 2 (H351) Repr. 1B (H360D)	16
Magnesium Stearate	557-04-0	209-150-3	Not Listed	Not Listed	*
Talc (non-asbestiform)	14807-96-6	238-877-9	Not Listed	Not Listed	*

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Confectioner's sugar	MIXTURE	Not Listed	Not Listed	Not Listed	*
Lactose	63-42-3	200-559-2	Not Listed	Not Listed	*

Additional Information:

* Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace

safety.

In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has

been withheld as a trade secret.

For the full text of the R phrases and CLP/GHS abbreviations mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Description of First Aid Measures

Eye Contact: Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention

immediately.

Skin Contact: Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek

medical attention.

Material Name: Phenytoin Sodium Capsules (25, 30mg, or Page 3 of 10

50mg)

Revision date: 24-Apr-2015 Version: 4.0

Ingestion: Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not

induce vomiting unless directed by medical personnel. Seek medical attention immediately.

Inhalation: Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms and Effects of For information on potential signs and symptoms of exposure, See Section 2 - Hazards

Exposure: Identification and/or Section 11 - Toxicological Information.

Medical Conditions None known

Aggravated by Exposure:

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use carbon dioxide, dry chemical, or water spray.

Special Hazards Arising from the Substance or Mixture

Hazardous Combustion Formation of toxic gases is possible during heating or fire.

Products:

Fire / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions.

Advice for Fire-Fighters

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

Environmental Precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

Methods and Material for Containment and Cleaning Up

Measures for Cleaning / Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill

Collecting: area thoroughly.

Additional Consideration for Non-esse

Large Spills:

Non-essential personnel should be evacuated from affected area. Report emergency

situations immediately. Clean up operations should only be undertaken by trained personnel.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Minimize dust generation and accumulation. If tablets or capsules are crushed and/or broken, avoid breathing dust and avoid contact with eyes, skin, and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash hands and any exposed skin after removal of PPE. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Store as directed by product packaging.

Specific end use(s): Pharmaceutical drug product

Material Name: Phenytoin Sodium Capsules (25, 30mg, or Page 4 of 10

50mg)

Revision date: 24-Apr-2015 Version: 4.0

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Refer to available public information for specific member state Occupational Exposure Limits.

Phenytoin Sodium

Pfizer OEL TWA-8 Hr: 400 μg/m³

Magnesium Stearate

ACGIH Threshold Limit Value (TWA) 10 mg/m³
Lithuania OEL - TWA 5 mg/m³
Sweden OEL - TWAs 5 mg/m³

Talc (non-asbestiform)

ACGIH Threshold Limit Value (TWA) 2 mg/m³
Australia TWA 2.5 mg/m³
Austria OEL - MAKs 2 mg/m³
Belgium OEL - TWA 2 mg/m³
Bulgaria OEL - TWA 1.0 fiber/cm³

6.0 mg/m³ 3.0 mg/m³

Czech Republic OEL - TWA2.0 mg/m³Denmark OEL - TWA0.3 fiber/cm³Finland OEL - TWA0.5 fiber/cm³Greece OEL - TWA10 mg/m³2 mg/m³

2 mg/m³ 2 mg/m³

 Hungary OEL - TWA
 2 mg/m³

 Ireland OEL - TWAs
 10 mg/m³

 0.8 mg/m³
 0.8 mg/m³

2 mg/m³

Netherlands OEL - TWA 0.25 mg/m³
OSHA - Final PELs - Table Z-3 Mineral D: 20 mppcf
Poland OEL - TWA 4.0 mg/m³

1.0 mg/m³

Portugal OEL - TWA

Romania OEL - TWA

Slovakia OEL - TWA

2 mg/m³

2 mg/m³

10 mg/m³

 Slovenia OEL - TWA
 2 mg/m³

 Spain OEL - TWA
 2 mg/m³

 Sweden OEL - TWAS
 2 mg/m³

 1 mg/m³

 Switzerland OEL -TWAS
 2 mg/m³

Analytical Method: Analytical method available for Phenytoin. Contact Pfizer Inc for further information.

Exposure Controls

Engineering Controls: Engineering controls should be used as the primary means to control exposures. General

room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne

contamination levels below the exposure limits listed above in this section.

Personal Protective

Lithuania OEL - TWA

Refer to applicable national standards and regulations in the selection and use of personal

Equipment: protective equipment (PPE).

DDGG

Material Name: Phenytoin Sodium Capsules (25, 30mg, or Page 5 of 10

50mg)

Revision date: 24-Apr-2015 Version: 4.0

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hands: Impervious gloves are recommended if skin contact with drug product is possible and for bulk

processing operations.

Eyes: Wear safety glasses or goggles if eye contact is possible.

Skin: Impervious protective clothing is recommended if skin contact with drug product is possible and

for bulk processing operations.

Respiratory protection: If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate

respirator with a protection factor sufficient to control exposures to below the OEL.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Capsule Color: White

Odor: No data available. Odor Threshold: No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility:
Water Solubility:
PH:
No data available
No data available
No data available.
No data available.
No data available.
No data available
No data available
Partition Coefficient: (Method, pH, Endpoint, Value)

Phenytoin Sodium No data available

Lactose

No data available
Confectioner's sugar
No data available
Magnesium Stearate
No data available
Talc (non-asbestiform)

No data available

Phenytoin

Predicted 7.4 Log D 2.47

Decomposition Temperature (°C): No data available.

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

No data available

Flammablity:

Autoignition Temperature (Solid) (°C):

Flammability (Solids):

Flash Point (Liquid) (°C):

Upper Explosive Limits (Liquid) (% by Vol.):

Lower Explosive Limits (Liquid) (% by Vol.):

Polymerization:

No data available
No data available
Will not occur

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use.

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Material Name: Phenytoin Sodium Capsules (25, 30mg, or Page 6 of 10

50mg)

Revision date: 24-Apr-2015 Version: 4.0

10. STABILITY AND REACTIVITY

Possibility of Hazardous Reactions

Oxidizing Properties: No data available

Fine particles (such as dust and mists) may fuel fires/explosions. **Conditions to Avoid: Incompatible Materials:** As a precautionary measure, keep away from strong oxidizers No data available

Hazardous Decomposition

Products:

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

General Information: The information included in this section describes the potential hazards of the individual

ingredients. The information in this section describes the hazards of various forms of the

active ingredient.

Long Term: Repeat-dose studies in animals have shown a potential to cause adverse effects on blood and

blood forming organs, gastrointestinal system and liver.

Known Clinical Effects: The most common adverse effects observed with clinical use of phenytoin are lack of appetite,

headache, dizziness, transient nervousness, ataxia, slurred speech, decreased coordination, mental confusion, insomnia, and GI disturbances (nausea, vomiting, and constipation). IV

administration has been associated with hypotension and CNS depression. Mild

hypersensitivity reactions (skin rashes) are common. Effects on blood-forming organs and the liver have occurred rarely. Other less common effects include swollen lymph nodes, sore mouth and symptoms of dependence/withdrawal. There is an unconfirmed association between the use of anticonvulsants during pregnancy and an increased risk of birth defects. This material has been shown to be secreted in low concentrations in human breast milk.

Acute Toxicity: (Species, Route, End Point, Dose)

Phenytoin Sodium

Mouse Oral LD50 165 mg/kg LD50 1530mg/kg Oral IV LD50 Rat 90mg/kg Mouse IV LD 50 98mg/kg

Talc (non-asbestiform)

Rat Oral LD50 > 1600 mg/kg

Phenytoin

Mouse Oral LD50 150 mg/kg 1635mg/kg Rat Oral LD50 LD 50 96mg/kg Rat Intravenous Rat IM LD 50 >337mg/kg Rabbit Oral LD 50 >3000mg/kg

Acute Toxicity Comments: A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable

at the highest dose used in the test.

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Magnesium Stearate

Oral 13 Week(s) Rat 1092 g/kg LOAEL Liver

Phenytoin

2 Week(s) Rat Oral <3125 ppm/day **NOEL** Bone marrow

Oral 2 Week(s) Mouse <125 ppm/day NOEL Central Nervous System

PD036

Material Name: Phenytoin Sodium Capsules (25, 30mg, or Page 7 of 10

50mg)

Revision date: 24-Apr-2015 Version: 4.0

11. TOXICOLOGICAL INFORMATION

13 Week(s) Rat Oral 300 ppm/day NOEL None identified

13 Week(s) Mouse Oral 150 ppm/day NOEL Blood forming organs, Gastrointestinal system, Liver

Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

Phenytoin

Embryo / Fetal Development Mouse Oral 75 mg/kg/day NOEL Maternal toxicity, Fetotoxicity, Teratogenic

Embryo / Fetal Development Mouse Oral 45 mg/kg/day NOEL Teratogenic

Embryo / Fetal Development Rabbit Oral 50 mg/kg/day NOEL Fetotoxicity, Teratogenic Embryo / Fetal Development Monkey Oral 10 mg/kg/day NOEL Fetotoxicity, Teratogenic

Embryo / Fetal Development Mouse Subcutaneous <12.5 mg/kg/day NOEL Maternal Toxicity, Fetotoxicity,

Teratogenic

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

Phenytoin

Bacterial Mutagenicity (Ames) Salmonella Negative

In Vitro Chromosome Aberration Chinese Hamster Ovary (CHO) cells Negative

In Vitro Chromosome Aberration Human Lymphocytes Negative

In Vivo Sister Chromatid Exchange Human Lymphocytes Positive

In Vivo Mitotic Spindle Assay Human Lymphocytes Negative

Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Phenytoin

2 Year(s) Male Rat Oral, in feed 50 mg/kg/day NOEL Benign neoplasms, Skin 2 Year(s) Mouse Oral, in feed 25 mg/kg/day NOEL Benign tumors, Liver Liver, neoplasms 2 Year(s) Female Mouse Oral, in feed 60 ppm LOAEL Female Rat Oral, in feed Not carcinogenic 2 Year(s) 240 ppm NOAEL

Carcinogen Status: See below

Phenytoin Sodium

IARC: Group 2B (Possibly Carcinogenic to Humans)

NTP: Reasonably Anticipated To Be A Human Carcinogen

Talc (non-asbestiform)

IARC: Group 3 (Not Classifiable)

Phenytoin

IARC: Group 2B (Possibly Carcinogenic to Humans)
NTP: Reasonably Anticipated To Be A Human Carcinogen

12. ECOLOGICAL INFORMATION

Environmental Overview: The environmental characteristics of this mixture have not been fully evaluated. Releases to

the environment should be avoided. See aquatic toxicity data, below:

Toxicity:

Material Name: Phenytoin Sodium Capsules (25, 30mg, or Page 8 of 10

50mg)

Revision date: 24-Apr-2015 Version: 4.0

Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

Phenytoin

Hyallela azteca (Freshwater Amphipod) OPPTS LC50 96 Hours 18 mg/L

Daphnia magna (Water Flea) TAD EC50 48 Hours >39 mg/L

Pimephales promelas (Fathead Minnow) OPPTS LC50 96 Hours >23 mg/L

Aquatic Toxicity Comments: A greater than (>) symbol indicates that acute ecotoxicity was not observed at the maximum

solubility. Since the substance is insoluble in aqueous solutions above this concentration, an

acute ecotoxicity value (i.e. LC/EC50) is not achievable.

Persistence and Degradability: No data available

Bio-accumulative Potential:

Partition Coefficient: (Method, pH, Endpoint, Value)

Phenytoin

Predicted 7.4 Log D 2.47

Mobility in Soil: No data available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of waste in accordance with all applicable laws and regulations. Member State

specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental

releases. This may include destructive techniques for waste and wastewater.

14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada - WHMIS: Classifications
WHMIS hazard class:

D2a very toxic materials

Material Name: Phenytoin Sodium Capsules (25, 30mg, or Page 9 of 10

50mg)

Revision date: 24-Apr-2015 Version: 4.0

15. REGULATORY INFORMATION



Phenytoin Sodium

CERCLA/SARA 313 Emission reporting Not Listed

carcinogen initial date 1/1/88 **California Proposition 65**

Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present **EU EINECS/ELINCS List** 211-148-2

Confectioner's sugar

Not Listed **CERCLA/SARA 313 Emission reporting California Proposition 65** Not Listed **EU EINECS/ELINCS List** Not Listed

Lactose

CERCLA/SARA 313 Emission reporting Not Listed **California Proposition 65** Not Listed Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present **REACH - Annex IV - Exemptions from the** Present obligations of Register:

EU EINECS/ELINCS List

200-559-2

Magnesium Stearate

CERCLA/SARA 313 Emission reporting Not Listed **California Proposition 65** Not Listed Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present **EU EINECS/ELINCS List** 209-150-3

Talc (non-asbestiform)

CERCLA/SARA 313 Emission reporting Not Listed **California Proposition 65** Not Listed Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present **EU EINECS/ELINCS List** 238-877-9

16. OTHER INFORMATION

Text of R phrases and GHS Classification abbreviations mentioned in Section 3

Acute toxicity, oral-Cat.4; H302 - Harmful if swallowed Carcinogenicity-Cat.2; H351 - Suspected of causing cancer Reproductive toxicity-Cat.1B; H360D - May damage the unborn child

Material Name: Phenytoin Sodium Capsules (25, 30mg, or Page 10 of 10

50mg)

Revision date: 24-Apr-2015 Version: 4.0

Carcinogenic: Category 3

Toxic to Reproduction: Category 2

Xn - Harmful

Prepared by:

R40 - Limited evidence of a carcinogenic effect R61 - May cause harm to the unborn child.

R22 - Harmful if swallowed.

Data Sources: Pfizer proprietary drug development information. Publicly available toxicity information.

Reasons for Revision: Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on

Ingredients. Updated Section 7 - Handling and Storage. Updated Section 11 - Toxicology Information. Updated Section 12 - Ecological Information. Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking. Updated Section 16 - Other

Information.

Revision date: 24-Apr-2015

Product Stewardship Hazard Communication
Pfizer Global Environment, Health, and Safety Operations

Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet