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

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Emergency telephone number: Emergency telephone number:

Material Name: Ethosuximide Capsules

Trade Name: Zarontin Chemical Family: Mixture

Intended Use: Pharmaceutical product used as anticonvulsant

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS List	%
Glycerin, USP	56-81-5	200-289-5	*
Ethosuximide	77-67-8	201-048-7	250 ***

Ingredient	CAS Number	EU EINECS List	%
Gelatin	9000-70-8	232-554-6	*
FD & C Red No. 3 (E 127)	16423-68-0	240-474-8	*
Polyethylene glycol 400	25322-68-3	Not listed	*
D & C yellow No. 10	8004-92-0	Not listed	*
Sorbitol	6706-59-8	Not listed	*

Additional Information: * Proprietary

*** per tablet/capsule/lozenge/suppository

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

safety.

3. HAZARDS IDENTIFICATION

Appearance: Orange capsules Signal Word: WARNING

Statement of Hazard: May be harmful if swallowed.

May damage the unborn child.

Suspected of causing genetic defects.

Additional Hazard Information:

Short Term: May be harmful if swallowed. (based on animal data) .

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Known Clinical Effects: Effects reported during clinical use included vomiting and diarrhea. Central nervous system

effects such as dizziness, headache, insomnia, irritability and weakness have also been reported. Clinical use of this drug has caused decreased blood cell count, increased eosinophils in blood or tissue (eosinophilia), skin rash. Stevens Johnson Syndrome (epidermal

necrosis and exfoliative dermatitis). May cause adverse effects on the developing fetus.

EU Indication of danger: Harmful

Toxic to Reproduction: Category 2

Mutagenic Category 3

EU Hazard Symbols:

EU Risk Phrases:

R22 - Harmful if swallowed.

R61 - May cause harm to the unborn child. R68 - Possible risk of irreversible effects.

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

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

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

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with water for at least 15 minutes. If irritation occurs or persists, get

medical attention.

Skin Contact: Remove contaminated clothing and flush exposed area with water. Obtain medical assistance

if irritation occurs, which may be delayed.

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.

5. FIRE FIGHTING MEASURES

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

Hazardous Combustion Products: Emits toxic fumes of carbon monoxide and oxides of nitrogen.

Fire Fighting Procedures: During all fire fighting activities, wear appropriate protective equipment, including self-

contained breathing apparatus.

Fire / Explosion Hazards: Not applicable

6. ACCIDENTAL RELEASE MEASURES

Health and Safety Precautions: Personnel involved in clean-up should wear appropriate personal protective equipment (see

Section 8). Minimize exposure.

Measures for Cleaning / Collecting: Contain the source of spill if it is safe to do so. Collect spilled material by a method that

controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of

dry solids. Clean spill area thoroughly.

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Measures for Environmental

Protections:

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

avoid environmental release.

Additional Consideration for 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

General Handling: If tablets or capsules are crushed and/or broken, avoid breathing dust and avoid contact with

eyes, skin, and clothing. Wash thoroughly after handling.

Storage Conditions: Store in a cool, dry place away from direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Glycerin, USP

OSHA - Final PELS - TWAs: = 15 mg/m³ TWA total

ACGIH Threshold Limit Value (TWA) = 5 mg/m³ TWA Australia TWA = 10 mg/m³ TWA = 10 mg/m³ TWA

Ethosuximide

Pfizer OEL TWA-8 Hr: 2 mg/m³

The exposure limit(s) listed for solid components are only relevant if dust may be generated.

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

Personal Protective Equipment:

Hands: Not required for the normal use of this product. Wear protective gloves when working with

large quantities.

Eyes: Not required under normal conditions of use. Wear safety glasses or goggles if eye contact is

possible.

Skin: Not required for the normal use of this product. Wear protective clothing when working with

large quantities.

Respiratory protection: Not required for the normal use of this product. If dust is present, a laboratory fume hood, local

exhaust ventilation or an appropriate respirator should be used. The specific type used will be determined by air concentrations present. Follow local regulations for respirator use in the

workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:CapsuleColor:OrangeMolecular Formula:MixtureMolecular Weight:Mixture

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.

Conditions to Avoid: None known

Incompatible Materials: As a precautionary measure, keep away from strong oxidizers.

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Hazardous Decomposition Products: Thermal decomposition products may include carbon monoxide, carbon dioxide and other toxic

vapors.

11. TOXICOLOGICAL INFORMATION

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

ingredients.

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

Glycerin, USP

Mouse Oral LD50 4090 mg/kg Rat Oral LD50 12.6 g/kg > 10 g/kg Rabbit Dermal LD50 Rat Inhalation LC50 1hr > 570 mg/m³ Rat Dermal LD 50 >21.9 g/kg

D & C yellow No. 10

Oral LD50 2000 mg/kg Rat

FD & C Red No. 3 (E 127)

Oral LD50 1840 mg/kg Mouse Oral LD50 1264 mg/kg

Ethosuximide

Mouse Oral LD50 1530 mg/kg Rat Oral LD50 1950 mg/kg Mouse Intravenous LD50 780 mg/kg LD50 Mouse Intravenous 1070 mg/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.

<u>Irritation / Sensitization: (Study Type, Species, Severity)</u>

Glycerin, USP

Eve Irritation Rabbit Mild

Polyethylene glycol 400

Eye Irritation Rabbit Mild Skin Irritation Rabbit Mild

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

Ethosuximide

Dog Oral 3 Month(s) 100 mg/kg/day LOAEL Liver None identified 26 Week(s) Rat Oral 676 mg/kg/day NOAEL Oral 100 mg/kg/day NOAEL None identified 26 Week(s) Dog 26 Week(s) Oral 200 mg/kg/day None identified Monkey NOAEL 1 Year(s) Mouse Oral 136 mg/kg/day LOAEL Liver

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

Ethosuximide

60 mg/kg/day Embryo / Fetal Development Rat LOEL Teratogenic 2 Generation Reproductive Toxicity Rat Oral 0.2 % LOAEL Not Teratogenic, Embryotoxicity Teratogenic

Embryo / Fetal Development Mouse Oral 60 mg/kg/day LOAEL

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Prenatal & Postnatal Development Mouse Oral 50 mg/mL NOAEL Embryotoxicity, Reproductive toxicity,

Developmental toxicity

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

Ethosuximide

In Vitro Cytogenetics Human Negative

In Vivo Micronucleus Mouse Bone Marrow Positive

Carcinogen Status: Not listed as a carcinogen by IARC, NTP or US OSHA.

12. ECOLOGICAL INFORMATION

Environmental Overview: Environmental properties have not been investigated. Releases to the environment should be

avoided.

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

Glycerin, USP

Oncorhynchus mykiss (Rainbow Trout) LD50 96 Hours 50 mg/L Daphnia Magna (Water Flea) EC50 24 Hours >500 mg/L

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

dose tested.

13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of waste in accordance with all applicable laws and regulations.

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

EU Symbol:

EU Indication of danger: Harmful

Toxic to Reproduction: Category 2

Mutagenic Category 3

EU Risk Phrases:

R22 - Harmful if swallowed.

R61 - May cause harm to the unborn child. R68 - Possible risk of irreversible effects.

EU Safety Phrases:

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S36/37 - Wear suitable protective clothing and gloves. S53 - Avoid exposure - obtain special instructions before use.

OSHA Label:

WARNING
May be harmful if swallowed.
May damage the unborn child.
Suspected of causing genetic defects.

Canada - WHMIS: Classifications

WHMIS hazard class:

Class D, Division 2, Subdivision A



Gelatin

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

EU EINECS List

XU

Present
232-554-6

Glycerin, USP

Inventory - United States TSCA - Sect. 8(b)PresentAustralia (AICS):PresentEU EINECS List200-289-5

FD & C Red No. 3 (E 127)

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

EU EINECS List

Present
240-474-8

Ethosuximide

Australia (AICS):PresentStandard for the Uniform SchedulingSchedule 4

for Drugs and Poisons:

EU EINECS List 201-048-7

Polyethylene glycol 400

Inventory - United States TSCA - Sect. 8(b) XU
Australia (AICS): Present

D & C yellow No. 10

Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present

16. OTHER INFORMATION

Reasons for Revision:Updated Section 10 - Stability and Reactivity. Updated Section 11 - Toxicology Information.
Updated Section 12 - Ecological Information. Updated Section 13 - Disposal Considerations.

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Prepared by: Toxicology and Hazard Communication
Pfizer Global Environment, Health, and Safety

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End of Safety Data Sheet