



Material Safety Data Sheet

| NFPA | HMIS | Personal Protective Equipment |
|------|---|-------------------------------|
| | Health Hazard 1 Fire Hazard 1 | |
| | Reactivity 0 | See Section 15. |

| Section 1. Chemical Product and Company Identification Page Number: 1 | | | | |
|---|---|--------------------------------------|--|--|
| Common Name/ Trade Name | Primidone | | Catalog Number(s). | P1426, P1469 |
| | | | CAS# | 125-33-7 |
| Manufacturer | SPECTRUM LABORATORY PRODUC | TS INC. | RTECS | UV9100000 |
| | 14422 S. SAN PEDRO STREET GARDENA, CA 90248 | | TSCA | TSCA 8(b) inventory: No products were found. |
| Commercial Name(s) | Cyral; Desoxyphenobarbitone; Hexadiona; Hexa Lepimidin; Lepsiral; Majsolin; Midone; Milepsin; I Misolyne; Mizodin; Mizolin; Mylepsin; Mylepsinur Mysoline; Prilepsin; Primacione; Primaclone; Pri Primadon; Primakton; Primidon; Prysoline; Serta | Misodine; n; Mysedon; macone;p | CI# | Not available. |
| Synonym | 2-Deoxyphenobarbital; 2-Desoxyphenobarbital; 5-Ethyl-5-phenylhexahydrophyrimidine-4,6-dione; 5-Ethyldihydro-5-phenyl-4,6(1H,5H)-pyrimidinedic 5-Ethylhexahydro-4,6-dioxo-5-phenylphrimidine; 5-Ethylhexahydro-5-phenylpyrimidine-4.6-dione; 5-Phenyl-5-ethyl-hexahydrophrimidine-4,6-dione | ne; | IN CASE OF EMERGENCY CHEMTREC (24hr) 800-424-9300 | |
| Chemical Name | 4,6-(1H,5H)-Pyrimidinedione, 5-ethyldihydro-5-ph | enyl- | | |
| Chemical Family | Family Not available. | | CALL (310) 516-8000 | |
| Chemical Formula | C12-H14-N2-O2 | | | |
| Supplier | SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248 | | | |
| Section 2.Compo | osition and Information on Ingredients | | | |
| | | | Exposure Limits | |

| | | | | Exposure Limits | | |
|--------------------------------------|------------------------------------|------------------|--------------------------|---------------------------|---------------------------|-------------|
| Name | | CAS # | TWA (mg/m ³) | STEL (mg/m ³) | CEIL (mg/m ³) | % by Weight |
| 1) Primidone | | 125-33-7 | | | | 100 |
| Toxicological Data on Ingredients | Primidone : ORAL (LD50): | Acute: 1500 mg/l | ا kg [Rat]. 280 mg/kg | g [Mouse]. | | |

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Section 3. Hazards Identification

| Potential Acute Health Effects | Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. |
|-------------------------------------|---|
| Potential Chronic Health Effects | CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition. |

Section 4. First Aid Measures

| Eye Contact | Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention if irritation occurs. | |
|----------------------|--|--|
| Skin Contact | Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. | |
| Serious Skin Contact | Not available. | |
| Inhalation | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. | |
| Serious Inhalation | Not available. | |
| Ingestion | Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband. | |
| Serious Ingestion | Not available. | |

| Section 5. Fire and Explosion Data | | |
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| Flammability of the Product | May be combustible at high temperature. | |
| Auto-Ignition Temperature | Not available. | |
| Flash Points | Not available. | |
| Flammable Limits | Not available. | |
| Products of Combustion | These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2). | |
| Fire Hazards in Presence of Various Substances | Slightly flammable to flammable in presence of heat. | |
| Explosion Hazards in Presence of Various Substances | Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. | |
| Fire Fighting Media and Instructions | SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet. | |
| Special Remarks on Fire Hazards | As with most organic solids, fire is possible at elevated temperatures. Material in powder form, capable of creating a dust explosion. When heated to decomposition it emits toxic fumes of nitrogen oxides | |
| Special Remarks on Explosion Hazards | Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. | |

| Primidone |
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Section 6. Accidental Release Measures

| Small Spill | Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. |
|-------------|--|
| Large Spill | Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. |

Section 7. Handling and Storage

Precautions Keep locked up.. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

| Engineering Controls | Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. | |
|---|---|--|
| Personal Protection | Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. | |
| Personal Protection in Case of a Large Spill | Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. | |
| Exposure Limits | Not available. | |

Section 9. Physical and Chemical Properties

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|-------------------------------|---|-------|-------------------|
| Physical state and appearance | Solid. (Crystalline powder.) | Odor | Odorless. |
| Molecular Weight | 218.3 g/mole | Taste | Bitter. (Slight.) |
| pH (1% soln/water) | Not available. | Color | White. Off-white. |
| Boiling Point | Not available. | | |
| Melting Point | 279°C (534.2°F) - 284 C. | | |
| Critical Temperature | Not available. | | |
| Specific Gravity | Not available. | | |
| Vapor Pressure | Not applicable. | | |
| Vapor Density | Not available. | | |
| Volatility | Not available. | | |
| Odor Threshold | Not available. | | |
| Water/Oil Dist. Coeff. | The product is more soluble in oil; log(oil/water) = 0.9 | | |
| Ionicity (in Water) | Not available. | | |
| Dispersion Properties | Not available. | | |
| Solubility | Very slightly soluble in cold water. Insoluble in diethyl ether. Slightly soluble in alcohol. | | |

Primidone

| Section 10. Stability | Section 10. Stability and Reactivity Data | | |
|---|---|--|--|
| Stability | The product is stable. | | |
| Instability Temperature | Not available. | | |
| Conditions of Instability | Excess heat, dust generation. | | |
| Incompatibility with various substances | Not available. | | |
| Corrosivity | Not available. | | |
| Special Remarks on Reactivity | Not available. | | |
| Special Remarks on Corrosivity | Not available. | | |
| Polymerization | Will not occur. | | |

| Section 11. Toxicological Information | | |
|---|---|--|
| Routes of Entry | Inhalation. Ingestion. | |
| Toxicity to Animals | Acute oral toxicity (LD50): 280 mg/kg [Mouse]. | |
| Chronic Effects on Humans | MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. | |
| Other Toxic Effects on Humans | Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation. | |
| Special Remarks on Toxicity to Animals | Not available. | |
| Special Remarks on Chronic Effects on Humans | Can cause adverse reproductive effects and birth defects (teratogenic). May affect genetic material (mutagenic). May cause cancer based on animal test data. | |
| Special Remarks on other Toxic Effects on Humans | Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: May cause eye irritation. Inhalation: Dust may cause respiratory tract irritation. Ingestion: May be harmful if swallowed. It can cause nausea, vomiting. It can affect behavior/central nervous system (sedation, vertigo, dizziness, ataxia, fatigue, irritability, drowsiness, hallucinations), eyes/vision (diplopia, nystagmus). In rare instances, it may also cause maculopapular and morbilliform rash, and systemic Lupus erythematosus, osteomalacia, and lymphadenopathy and may affect the blood (leukopenia, thrombocytopenia, megaloblastic anemia). | |

Section 12. Ecological Information Ecotoxicity Not available.

| Ecotoxicity | | |
|--|--|--|
| BOD5 and COD | Not available. | |
| Products of Biodegradation | Possibly hazardous short term degradation products are not likely. However, long term degradation products ma arise. | |
| Toxicity of the Products of Biodegradation | The products of degradation are less toxic than the product itself. | |
| Special Remarks on the Products of Biodegradation | Not available. | |

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|--|---|--|
| Section 13. Dispo | sal Considerations | |
| Waste Disposal | Waste must be disposed of in accordance with federal, state and local environmental control regulations. | |
| Section 14. Trans | port Information | |
| DOT Classification | Not a DOT controlled material (United States). | |
| Identification | Not applicable. | |
| Special Provisions for Transport | Not applicable. | |
| DOT (Pictograms) | | |
| Section 15. Other | Regulatory Information and Pictograms | |
| Federal and State Regulations | California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Primidone California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Primidone | |
| California Proposition 65 Warnings | California prop. 65: This product contains the following ingredients for which the State of California has four to cause cancer which would require a warning under the statute: Primidone California prop. 65: This product contains the following ingredients for which the State of California has four to cause birth defects which would require a warning under the statute: No products were found. | |
| Other Regulations | OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No 204-737-0). Canada: Listed on Canadian Domestic Substance List (DSL). China: Not listed on National Inventory. Japan: Not listed on National Inventory (ENCS). Korea: Listed on National Inventory (KECI). Philippings: Not listed on National Inventory (KECI). | |

Philippines: Not listed on National Inventory (PICCS).

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Not controlled under WHMIS (Canada).

National Fire Protection

Association (U.S.A.)

S46- If swallowed, seek medical advice immediately and show this container or label.

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Health

Flammability

Reactivity

Specific hazard

R22- Harmful if swallowed.

Australia: Listed on AICS.

WHMIS (Canada)

DSCL (EEC)

Health Hazard

Personal Protection

Fire Hazard

Reactivity

Continued on Next Page

Other Classifications

HMIS (U.S.A.)

WHMIS (Canada) (Pictograms)

| Primidone | | Page Number: 6 | |
|-------------------------------|-----------------|---|--|
| DSCL (Europe) (Pictograms) | ×N | | |
| TDG (Canada) (Pictograms) | | | |
| ADR (Europe) (Pictograms) | | | |
| Protective Equipment | | Gloves. | |
| | | Lab coat. | |
| | | Dust respirator. Be sure to use an approved/certified respirator or equivalent. | |
| | $\nabla \nabla$ | Safety glasses. | |
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| Section 16. Other Information | | | |
| MSDS Code P000 | 02 | | |

| References | Not available. | | | |
|---------------------------------------|--------------------------------------|--|--|--|
| Other Special Considerations | Major Uses: Medicine (anticonvulant) | | | |
| Validated by Sonia Owen on 9/13/2007. | | Verified by Sonia Owen. Printed 9/27/2007. | | |
| CALL (310) 516-8000 | | | | |
| Notice to Reader | | the state of the s | | |

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.