

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

078939961

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

078939960

# Phenobarbital Sodium Injection, USP

## MATERIAL SAFETY DATA SHEET

### SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**COMPANY ADDRESS:**

VeV Scientific, Inc.  
3030 Bunker Hill St, Suite 203  
San Diego, CA 92109

**EMERGENCY TELEPHONE NUMBERS:**

1-800-FDA-1088 (1-800-332-1088 to report suspected adverse reactions)

**PRODUCT NAME:**

Phenobarbital Sodium Injection, USP

**CHEMICAL FAMILY:**

Anticonvulsant, Sedative

**PRODUCT USE:**

Pharmaceutical

**CONTAINER INFORMATION:**

2 mL vials, 1 mL fill

### SECTION 2 – HAZARDS IDENTIFICATION SUMMARY

Clear Liquid

**EMERGENCY OVERVIEW:** Within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200]: this mixture is considered a hazard.

**POTENTIAL HEALTH EFFECTS:**

: Harmful if swallowed  
: May cause and allergic skin reaction  
: Suspected of causing cancer.

**CLASSIFICATION**

: Acute Toxicity (oral) – Category 4  
: Skin Sensitization – Category 1  
: Carcinogenicity – Category 2

**STORAGE**

: Store in a secure locked location

**DISPOSAL**

: Dispose of contents and container in accordance with all regulations from local, regional, national and international regulators.

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## MATERIAL SAFETY DATA SHEET

### SECTION 3 – COMPOSITION & INGREDIENTS

| ACTIVE INGREDIENTS (per 1mL)     | CAS NUMBER |
|----------------------------------|------------|
| Phenobarbital Sodium (130/65 mg) | 57-30-7    |

| INACTIVE INGREDIENTS |
|----------------------|
| Propylene Glycol     |
| Ethyl Alcohol        |
| Water for Injection  |
| Benzyl Alcohol       |

### SECTION 4 – FIRST AID MEASURES

|                    |  |
|--------------------|--|
| <b>IF INGESTED</b> | : Wash mouth with water. Drink small quantities of water but do not induce vomiting. Seek medical attention or call a poison control center. |
| <b>IF ON SKIN</b>  | : May cause an allergic skin reaction. Wash thoroughly with soap and water. If irritation occurs, seek medical attention.                    |
| <b>IF IN EYES</b>  | : Rinse eyes thoroughly with water. If irritation occurs, seek medical attention.  |
| <b>IF INHALED</b>  | : Inhalation is not an anticipated route of occupational exposure. For the intended use, see product label.                                  |

### SECTION 5 – FIRE FIGHTING MEASURES

National Fire Protection Rating (NFPA)

|  |   |
|--|---|
| HEALTH   | 1 |
| FLAMMABILITY                                     | 1 |
| REACTIVITY                                       | 1 |
| 4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal |   |

|  |     |
|--|-----|
| <b>FLASHPOINT &amp; METHOD:</b>            | N/A |
| <b>EXPLOSIVE LIMIT:</b>                    | N/A |
| <b>AUTOIGNITION TEMPERATURE:</b>           | N/A |
| <b>FLAMMABILITY CLASSIFICATION:</b>        | N/A |
| <b>HAZARDOUS PRODUCTS OF COMBUSTION:</b>   | N/A |
| <b>EXTINGUISHING MEDIA:</b>                | N/A |
| <b>FIRE FIGHTING INSTRUCTIONS:</b>         | N/A |
| <b>OTHER FIRE FIGHTING CONSIDERATIONS:</b> | N/A |

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTION:** Avoid excessive contact. Avoid contact with eyes.

**ENVIRONMENTAL PRECAUTION:** N.K.

**PROCEDURE FOR SPILL/LEAK CLEAN-UP:** Collect and place in a suitable container. Sorbents may be used. Waste disposal method: To be performed in compliance with all regulations.

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## SECTION 7 – HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Use appropriate personal protection equipment. Avoid exposure. Do not get on skin or clothing or in eyes. Do not ingest. Do not breath vapor or mist. Empty containers may contain product residue and should be treated as hazardous. Dispose of appropriately.

**CONDITIONS FOR SAFE STORAGE:** Protect from light and avoid freezing. Store secured in a cool, dry and well-ventilated area away from food and drink.

**OTHER RECOMENATIONS:** None

## SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

**ENGINEERING CONTROLS:**

**PERSONAL PROTECTIVE EQUIPMENT:**

EYE PROTECTION – NIOSH/OSHA approved safety glasses.

SKIN – None

INHALATION – None

OTHER CONTROLS – None

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

|                          |  |
|--------------------------|--|
| <b>Appearance:</b>       | Solution is a liquid which is clear in color |
| <b>Odor:</b>             | No data                                      |
| <b>pH:</b>               | 9.2 – 10.2                                   |
| <b>Melting Point:</b>    | No data                                      |
| <b>Boiling Point:</b>    | No data                                      |
| <b>Flash Point:</b>      | No data                                      |
| <b>Evaporation Rate:</b> | No data                                      |
| <b>Viscosity:</b>        | No data                                      |
| <b>Solubility:</b>       | Soluble in cold water and hot water.         |

## SECTION 10 – STABILITY AND REACTIVITY

**POSSIBLE HAZARDOUS REACTIONS/CONDITIONS:** None

**CONDITIONS TO AVOID:** None

**MATERIALS TO AVOID:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** N.K.

**INCOMPATIBLE MATERIALS:** Incompatible or reactive with: oxidizing materials, alkalis and acids.

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## SECTION 11 – TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY

| Product/Ingredient name | Result                | Species | Dose                     | Exposure |
|-------------------------|-----------------------|---------|--------------------------|----------|
| Phenobarbital Sodium    | LD50 Oral             | Rat     | 150 mg/kg                | -        |
|                         | LC50 Inhalation Vapor | Rat     | 124700 mg/m <sup>3</sup> | 4 hours  |
| Ethyl Alcohol           | LD50 Oral             | Rat     | 7 g/kg                   | -        |
|                         | LD50 Dermal           | Rabbit  | 2000 mg/kg               | -        |
|                         | LD50 Oral             | Rat     | 1230 mg/kg               | -        |

### IRRITATION/CORROSION

| Product/Ingredient name | Result                   | Species | Score | Exposure                   | Observation |
|-------------------------|--------------------------|---------|-------|----------------------------|-------------|
| Ethyl Alcohol           | Eyes - Moderate irritant | Rabbit  | -     | 100 µL                     | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20 mg             | -           |
|                         | Eyes - Mild irritant     | Rabbit  | -     | 24 hours 500 mg            | -           |
|                         | Eyes - Moderate irritant | Rabbit  | -     | 0.066666667 minutes 100 mg | -           |
| Benzyl Alcohol          | Eyes - Severe irritant   | Rabbit  | -     | 500 mg                     | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 400 mg                     | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 100 mg            | -           |
|                         | Skin - Mild irritant     | Man     | -     | 48 hours 16 mg             | -           |
|                         | Skin - Moderate irritant | Pig     | -     | 100%                       | -           |

## SECTION 12 – ECOLOGICAL INFORMATION

### TOXICITY

| Product/Ingredient name | Result                               | Species                                     | Exposure |
|-------------------------|--------------------------------------|---|----------|
| Ethyl Alcohol           | Acute EC50 17.921 mg/L Marine water  | Algae - Ulva pertusa                        | 96 hours |
|                         | Acute EC50 2000 µg/l Fresh water     | Daphnia - Daphnia magna                     | 48 hours |
|                         | Acute LC50 25500 µg/l Marine water   | Crustaceans - Artemia franchiscana - Larvae | 48 hours |
|                         | Acute LC50 42000 µg/l Fresh water    | Fish - Oncorhynchus mykiss                  | 4 days   |
| Benzyl Alcohol          | Chronic NOEC 4.995 mg/L Marine water | Algae - Ulva pertusa                        | 96 hours |
|                         | Chronic NOEC 0.375 µl/L Fresh water  | Fish - Gambusia holbrooki - Larvae          | 12 weeks |
|                         | Acute EC50 640 mg/L                  | Algae - Scenedesmus subspicatus             | 96 hours |
|                         | Acute IC50 700 mg/L                  | Algae                                       | 72 hours |
|                         | Acute LC50 10000 µg/l Fresh water    | Fish - Lepomis macrochirus                  | 96 hours |

## SECTION 13 – DISPOSAL CONSIDERATIONS

Collect and place in a suitable container. Sorbents may be used. Waste disposal method: To be performed in compliance with all local and regional regulations.

## SECTION 14 – TRANSPORT INFORMATION

N/A

## SECTION 15 – ADDITIONAL REGULATORY INFORMATION

N/A

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## SECTION 16 – OTHER INFORMATION

|                           |  |   |
|---------------------------|--|---|
| HMIS<br>HAZARD<br>RATINGS | HEALTH   | 1 |
|                           | FLAMMABILITY                                     | 1 |
|                           | PHYSICAL HAZARD                                  | 1 |
|                           | 4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal |   |

**DISCLAIMER:** This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate mechanisms to prevent employee exposures, property damage or release to the environment.