

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

### 1.1 Product identifier

- Product Name: **Cyanocobalamin 3000 mcg Sterile Solution**
- Product Part Number(s): **09087**
- Brands: Neogen®Vet

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/preparation: A sterile injection solution for use in cattle, horses, sheep, swine, dogs, and cats.  
CAUTION: Federal law restricts this drug to use by or on the order of a licensed veterinarian.
- Uses advised against: For animal use only. See label cautions.

### 1.3 Details of the supplier of the safety data sheet

- Name of Manufacturer: Sparhawk Laboratories, Inc. for Neogen Corporation
- Address of Manufacturer: 944 Nandino Blvd.  
Lexington, Kentucky 40511  
USA
- Telephone: 859/254-1221 • 800/525-2022
- Email: [Inform@neogen.com](mailto:Inform@neogen.com)

### 1.4 Emergency telephone number

- Emergency Telephone: Chemtrec: 1 (800) 424-9300  
Outside USA and Canada: +1 (703) 527-3887

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

- Classification (29 CFR 1910.1200)
- Not classified as hazardous for supply
- Classification (WHMIS 2015 HPR)
- Not classified as hazardous for supply

Additional information: For full text of Hazard statements: see Section 16.

### 2.2 Label elements

- Signal Word: None
- Symbols: None
- Hazard phrases  
None
- Precautionary Phrases  
Ingestion of large amounts may cause nausea or vomiting.  
Avoid prolonged contact with eyes, skin, or clothing.

### 2.3 Other hazards

- Keep out of reach of children.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

### 3.2 Mixtures

This product is a mixture of the substances listed below with the addition of non-hazardous materials

Chemical	Concentration	CAS No.	H-Statements	Symbols
Ammonium sulfate	1 mg	7783-20-2	None	None
Benzyl alcohol	10 mg	100-51-6	H302, H332	GHS07
Citric acid	119 mcg	77-92-9	H319	GHS07
Cyanocobalamin	3000 mcg	68-19-9	None	None
Sodium chloride	2.2 mg	7647-14-5	None	None
Sodium citrate	79 mcg	6132-04-3	None	None
Water for injection	q.s.	7732-18-5	None	None

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

## SECTION 4 First aid measures

### 4.1 Description of first aid measures

- General  
In case of doubt, or when symptoms persist, seek medical attention.  
In general, this product is not hazardous to humans or animals, but like any other chemical, it should be treated with care, respect, and common sense.
- Contact with skin  
Remove contaminated clothing.  
Wash affected area with plenty of soap and water.  
If skin irritation or rash occurs: Get medical advice/attention.  
Contaminated clothing should be laundered before reuse.
- Contact with eyes  
If substance has gotten into eyes, immediately wash out with plenty of water for at least 15 minutes.  
Irrigate eyes thoroughly while lifting eyelids.  
Seek medical advice if necessary.
- Ingestion  
Rinse mouth with water (do not swallow).  
Never make an unconscious person vomit or drink fluids.  
If medical advice is needed, have product container or label at hand.
- Inhalation  
If breathing is difficult, remove victim to fresh air and keep comfortable for breathing.  
Call a poison center or doctor/physician if you feel unwell.

### 4.2 Most important symptoms and effects, both acute and delayed

- The most important known symptoms are described in the labeling (see Section 2.2) and/or in Section 11.

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

- Treat symptomatically.

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## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

- In case of fire: use water spray, foam, carbon dioxide or dry agent for extinction.

### 5.2 Special hazards arising from the substance or mixture

- Smoke from fires is toxic. Take precautions to protect personnel from exposure.
- See Section 10.

### 5.3 Advice for firefighters

- Keep container(s) exposed to fire cool, by spraying with water.
- Wear chemical protection suit and positive-pressure breathing apparatus, if necessary.
- Wear protective clothing as per Section 8.

### 5.4 Hazardous Combustion Products

- May include carbon oxides.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per Section 8.
- Wash thoroughly after dealing with spillage.
- Remove contaminated clothing and launder before reuse.

### 6.2 Environmental Precautions

- Do not allow to enter public sewers and watercourses.
- Avoid releasing to the environment.

## SECTION 6: Accidental release measures (continued)

### 6.3 Methods and material for containment and cleaning up

- Absorb spillage in inert material and shovel up.
- Place in sealable container.
- Seal containers and label them.
- Ventilate the area and wash spill site after material pick-up is complete.
- Dispose of contaminated materials and wastes in accordance with local/national/international regulations.

### 6.4 Reference to other sections

- See Section 7 for storage. For disposal, see Section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Avoid contact with skin, eyes, and mucosa.
- Do not eat, drink or smoke when using this product.
- Wash hands thoroughly after using this substance.

### 7.2 Conditions for safe storage, including any incompatibilities

- Store controlled room temperature between 15-30°C (59-86°F).
- Protect from light.
- Keep container adequately sealed when not in use.
- Keep out of reach of children.

### 7.3 Specific end use(s)

- A sterile injection solution for use in cattle, horses, sheep, swine, dogs, and cats.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

- There are no recommended or established controls for this product.

### 8.2 Exposure controls

- Eyewash bottles should be available.
- Engineering controls should be provided to prevent the need for ventilation.
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear an approved chemical respirator.
- Wear protective gloves to prevent prolonged or repeated skin contact.
- Wear safety glasses or chemical splash goggles, according to the concentration and amount of dangerous substance at the specific workplace.
- Wear suitable protective clothing in accordance with good industrial hygiene and safety practices in the event of prolonged exposure to bulk quantities.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance: Red liquid solution
- Odor: Odorless or faint odor
- pH: No information available
- Melting point/Range: Not applicable
- Boiling Point/Range: 217°F/102.8°C
- Flashpoint: No information available
- Evaporation Rate: No information available
- Flammability: No information available
- Vapor Pressure: No information available
- Vapor Density: No information available
- Specific Gravity: 1.045
- Solubility in water: Completely soluble
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature: Product is not self-igniting
- Viscosity: No information available
- Explosive Properties: Product does not present an explosion hazard
- Oxidizing Properties: Product is not classified as an oxidizer

**SECTION 9: Physical and chemical properties (continued)**

## 9.2 Other information

- No information available
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**SECTION 10: Stability and reactivity**

## 10.1 Reactivity

- No information available

## 10.2 Chemical stability

- Considered stable under normal conditions.

## 10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose.

## 10.4 Conditions to avoid

- None known

## 10.5 Incompatible materials

- Strong bases, strong acids, and oxidizing agents

## 10.6 Hazardous Decomposition Products

- May yield carbon monoxide and carbon dioxide fumes.
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**SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

- No experimental test data available for mixture
  - Contact with skin  
Acute overexposure may cause redness and irritation in sensitive individuals.
  - Contact with eyes  
Acute overexposure may cause redness and irritation in sensitive individuals.
  - Ingestion  
Product is not toxic, but acute overexposure may cause nausea or vomiting in sensitive individuals.
  - Inhalation  
May cause irritation in sensitive individuals.
  - Carcinogenicity  
Not listed in the National Toxicology Program (NTP) 13<sup>th</sup> Report on Carcinogens.  
Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112.  
Not listed in OSHA standard 1910.1003 Carcinogens.
  - Mutagenicity  
No evidence of mutagenic effects.
  - Teratogenicity  
No evidence of teratogenic effects.
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**SECTION 12: Ecological information**

## 12.1 Toxicity

- This product is not classified as hazardous to the environment under U.S. regulations.

## 12.2 Persistence and degradability

- No information available

## 12.3 Bioaccumulation Potential

- No information available

## 12.4 Mobility in soil

- No information available

## 12.5 Other Adverse Effects

- To the best of our knowledge, the properties of this material have not been fully evaluated.
  - On available data, substance is not harmful to the environment.
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## SECTION 13: Disposal considerations

### Waste treatment methods

- Disposal should be in accordance with local, state, national, or international regulations.
- Do not discharge into drains or the environment, dispose to an approved waste disposal facility.
- Do not reuse empty containers.

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## SECTION 14: Transport information

### 14.1 UN Number

- Not classified as hazardous for transport

### 14.2 UN Proper Shipping Name

- Not applicable

### 14.3 Transport hazard class(es)

- Not applicable

### 14.4 Packing group

- Not applicable

### 14.5 Environmental hazards

- Not Classified

### 14.6 Special precautions for user

- Not Classified

### 14.7 Domestic Surface Transport (US DOT)

- Proper Shipping Name: Not applicable
- DOT UN No.: Not applicable
- DOT Hazard Class: Not applicable
- DOT Packing Group: Not applicable

### 14.8 International Road/Rail (ADR/RID)

- Proper Shipping Name: Not applicable
- ADR UN No.: Not applicable
- ADR Hazard Class: Not applicable
- ADR Packing Group: Not applicable
- Tunnel Code: Not applicable

### 14.9 Ocean/Sea (IMO/IMDG)

- Proper Shipping Name: Not applicable
- IMDG UN No.: Not applicable
- IMDG Hazard Class: Not applicable
- IMDG Packing Group: Not applicable

### 14.10 Air (ICAO/IATA)

- Proper Shipping Name: Not applicable
- ICAO UN No.: Not applicable
- ICAO Hazard Class: Not applicable
- ICAO Packing Group: Not applicable

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## SECTION 15: Regulatory information

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

- The labeling requirements of the Federal Food, Drug, and Cosmetic Act differ from the classification criteria and hazard information required for safety data sheets and for workplace labels under the OSHA Hazard Communication Standard 29 CFR 1910.1200. Following is the hazard information as required on the drug label:

CAUTION: Federal law restricts this drugs to use by or on the order of a licensed veterinarian.  
KEEP OUT OF REACH OF CHILDREN  
For Animal Use Only

- NDC: 59051-9087-5

## SECTION 15: Regulatory information (continued)

### 15.2 United States Regulatory Information

#### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

The material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312

No SARA Hazards

#### Toxic Substance Control Act (TSCA)

All components of this material are either listed or exempt from listing on the TSCA Inventory.

### 15.3 Canadian Regulatory Information

- This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR). The labelling may differ subject to the requirements of the Food and Drugs Act (FDA).
- WHMIS Classification: Exempt
- Inventory Status

Domestic Substances List (DSL)	Listed
Non-Domestic Substances List (NDSL)	Not listed

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## SECTION 16: Other information

Document Number: SDS-9011, Cyanocobalamin 3000mcg

Date of Preparation: March 11, 2016

Revision: Rev. 1

Replaces: December 18, 2015

Text not given with phrase codes where they are used elsewhere in this safety data sheet: H302: Harmful if swallowed. H319: Causes serious eye irritation. H332: Harmful if inhaled.

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Neogen Corporation shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.