
US - OSHA SAFETY DATA SHEET

Issue Date 14-Jul-2023 Revision Date NA Version 1

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

Product identifier

Product Name Cyanocobalamin Nasal Spray

Other means of identification

Product CodeNot availableSynonymsNone known.

Recommended use of the chemical and restrictions on use

Recommended Use Nasal Spray. Uses advised against Not available.

Details of the supplier of the safety data sheet

Supplier address Lupin Somerset, LLC 400 Campus Drive Somerset, NJ 08873

Emergency telephone number

Company Phone Number 908-603-6066 24 Hour Emergency Phone Number 908-603-6029

2. HAZARDS IDENTIFICATION

Classification Health Hazards

Not classified.

Physical Hazards Not classified.

Label elements

Emergency Overview

Appearance Nasal Spray Physical state Liquid Odor Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Strength
Cyanocobalamin	68-19-9	500 mcg/0.1 mL

^{**}The exact percentage of the component and other components in this product is withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

Eye Contact In case of eye contact, immediately flush your eyes with fresh water for at least 15 minutes

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while holding the eyelids open. Remove contact lenses if worn. Get medical attention if

irritation persists.

Skin Contact In case of contact, remove contaminated clothing. Immediately flush skin with copious

amounts of water for at least 15 minutes. Obtain medical attention if skin reaction occurs.

In case of inhalation, remove the fresh air. If not breathing, call 911 and provide artificial

respiration. Do not use mouth-to-mouth method; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device if

breathing is difficult. Seek emergency medical attention immediately.

In case of accidental ingestion, wash out mouth with copious amounts of water. Seek medical

attention immediately. Do not induce vomiting unless directed by medical personnel. Never

give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

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

Identification and/or Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Note to Physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, carbon dioxide, dry chemical, chemical foam.

Unsuitable Extinguishing Media Caution: Use of water spray when fighting fire may be inefficient as the burning material may be spread.

Specific hazards arising from the chemical

Not available.

Explosion data

Sensitivity to Mechanical Impact None known.
Sensitivity to Static Discharge None known.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Personal Precautions Not applicable to consumer use. In an industrial setting, ventilate area of leak or spill. Remove

all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8 and follow handling guidance appropriate for the compound (see Section 7). Isolate

hazard area. Keep unnecessary and unprotected personnel from entering.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up

Pick up and transfer to properly labeled containers. Package all material in appropriate

container for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling

Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and wash it before reuse. Wash hands after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool, and well-ventilated place.

Incompatible Materials None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

This product, as supplied, contains the following hazardous material(s) with occupational exposure limits established by the region-specific regulatory bodies.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Cyanocobalamin	-	TWA: 5 mg/m³ (vacated)	TWA: 25 mg/m ³
68-19-9			

Appropriate engineering controls

Engineering Controls

None under normal use conditions. The health hazard risks of handling this material are dependent on factors such as physical form and quantity. Site-specific risk assessments should be conducted to determine the appropriate exposure control measures. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels as low as reasonably achievable.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

None required for consumer use. In laboratory, medical or industrial settings, safety glasses with side shields are recommended. The use of goggles or full-face protection may be required depending on the industrial exposure setting. Contact a health and safety professional for specific information.

Skin and Body Protection

Wear impervious fire-resistant protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory Protection

None required under normal use conditions. Respirators may be required for certain laboratory and manufacturing tasks if engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (where the exposure limits have not been established). Workplace risk assessments should be completed before specifying and implementing respirator usage. All respirators must conform to specifications for efficiency and performance. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 29 CFR 1910.134. Contact a health and safety professional or manufacturer for specific information.

General Hygiene Considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid Appearance Nasal spray Color Not available.

Odor Not available. **Odor Threshold** Not available.

Remarks • Method

Property **Values**

No information available рΗ Melting point/freezing point No information available Boiling point/boiling range No information available Flash point No information available **Evaporation rate** Not available.

Flammability (solid, gas) Flammability Limit in Air Not available.

Upper flammability limit: No information available Lower flammability limit: No information available

Vapor pressure Not available.

Vapor density No information available

Specific Gravity Not available. Not available. Water solubility Solubility in other solvents Not available. Partition coefficient Not available.

Autoignition temperature No information available

Hyphen Not available. Kinematic viscosity Not available. **Dvnamic viscosity** Not available. **Explosive Properties** Not available. **Oxidizing Properties** Not available.

Other information

Softening point Not available. Molecular weight Not available.

VOC Content (%) No information available

Density Not available. **Bulk density** Not available.

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended handling and storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Cyanocobalamin is light sensitive so avoid extremes of temperature and direct sunlight.

Incompatible materials

Acids, Strong acids.

Hazardous decomposition products

None known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied information

Acute Toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	Intravenous LD50
Cyanocobalamin	> 5,000 mg/kg (mouse)			
68-19-9				

Symptoms related to the physical, chemical, and toxicological characteristics

Symptoms Cyanocobalamin is usually nontoxic even in large doses; however, mild transient diarrhea,

peripheral vascular thrombosis, itching, transitory exanthema, urticaria, feeling of swelling of

the entire body, anaphylaxis, and death have been reported.

Delayed and immediate effects as well as chronic effects from short- and long-term exposure

Skin/Eye Irritation Not available.

Respiratory or Skin Sensitization Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals

but does not classify the product as such at component concentration (Cyanocobalamin).

Germ Cell Mutagenicity Test Type: Ames test

Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Carcinogenicity Not listed by IARC, NTP or US OSHA as carcinogenic.

Reproductive Toxicity Not available.

STOT - Single Exposure
STOT - Repeated Exposure
Aspiration Hazard
Not available.
Not available.
Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulation

Not available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Observe

all federal, state, and local environmental regulations.

Contaminated Packaging Do not reuse container/vial.

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This product does not contain any substance that is listed with the State of California as hazardous waste.

14. TRANSPORT INFORMATION

DOT Not regulated TDG Not regulated MEX Not regulated Not regulated. **IATA IMDG** Not regulated.

15. REGULATORY INFORMATION

International Inventories

TSCA Does not comply DSL/NDSL Complies **EINECS/ELINCS** Complies **ENCS** Does not comply **IECSC** Does not comply **KECL** Does not comply **PICCS** Does not comply AICS Does not comply

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazard No **Chronic Health Hazard** No Fire hazard No **Sudden Release of Pressure Hazard** No **Reactive Hazard** No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemical(s).

U.S. State Right-to-Know Regulations

This product does not contain the following substance(s) regulated by state right-to-know regulations.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable.

16. OTHER INFORMATION

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet