SAFETY DATA SHEET

SODIUM ORTHOVANADATE

SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

BioShop Canada Inc. 5480 Mainway Burlington, Ontario L7L 6A4 1-800-234-1179

Emergency Telephone No.: 1-905-466-3832 Chemical Name: Sodium orthovanadate Catalog Number: SOV850/SOV664

Recommended use: for research purposes only

SECTION 2 HAZARDS IDENTIFICATION

Emergency overview:

GHS Classification:

Acute toxicity, Oral (category 4) Acute toxicity, Inhalation (category 4) Acute toxicity, Dermal (category 4)

Pictogram



Signal word: WARNING

Hazard statements:

H302+H312+H332- Harmful if swallowed, in contact with skin or if inhaled

Precautionary statement:

P280 Use personal protective equipment as required.

.

Potential health effects:

Inhalation: harmful if inhaled

Skin: May be harmful if absorbed through skin

Eyes: May cause eye irritation Ingestion: Toxicif swallowed

SECTION 3 COMPOSITION/ INGREDIENTS

CAS # % **Sodium orthovanadate** 13721-39-6 100%

Molecular Formula: Na3O4V Molecular Weight: 183.91 g/mol

SECTION 4 FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes. If irritation

persists get medical attention.

Skin: Flush area immediately with plenty of soap and water. Inhalation: Remove victim to fresh air. If not breathing give artificial respiration. Get medical attention if symptoms persist.

Ingestion: Wash mouth with water.

SECTION 5 FIRE FIGHTING MEASURES

General Information: Always wear full protective gear in the event of a fire. Toxic gases and vapors may be generated by decomposition or combustion. Excessive dust in combination with air can create an explosive mixture.

Flammable: No Flash Point: N/A

Autoignition Temperature: N/A

Extinguishing Media: Use water spray, foam, dry chemical or carbon

dioxide.

Explosion Data: Not available

SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.

Leak and Spill Procedures: Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container. Avoid generating dust.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Minimize dust generation.

Storage Conditions: 4.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits: none listed

Use adequate ventilation. Avoid dust generation..

Wear appropriate protective equipment to prevent eye and skin exposure.

Wear appropriate respirator to prevent lung irritation.

Personal Protection: Lab coat, safety goggles, rubber gloves.

Ventilation: Use appropriate exhaust ventilation .

Respiratory protection: use OSHA/MSHA approved dust masks.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Appearance and Odor: white powder, no odor

Freezing/Melting Point: n/a Boiling Point: N/A Specific Gravity: N/A

SAFETY DATA SHEET SODIUM ORTHOVANADATE

Vapor Density: N/A

Solubility: very poorly soluble in water

pH: N/A

SECTION 10 STABILITY AND REACTIVITY:

Stability: Stable under normal temperatures and pressure **Conditions to avoid:** dust generation. Excess heat

Incompatibility: Strong oxidizing agents

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide,

carbon dioxide,

Hazardous Polymerization: Will not occur

SECTION 11 TOXICOLOGICAL PROPERTIES

Exposure Limits:

LD50 / LC50:

LD50 Oral, rat: 330mg/kg

Epidemiology: No data available Teratogenicity; No data available Reproductive Effects: No data available Neurotoxicity: No data available Mutagenicity: No data available Carcinogenicity: No data available

SECTION 12 ECOLOGICAL INFORMATION

Toxicity:

No information found.

SECTION 13 DISPOSAL CONSIDERATION

Waste Disposal: Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

SECTION 14 TRANSPORT INFORMATION

Shipping Information:

DOT (US): not regulated IMDG: not regulated IATA: not regulated

SECTION 15 REGULATORY INFORMATION

US: TSCA: listed Canada: WHMIS: D1B

SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)

Date Prepared: Jan 1/2025

Phone: (800) 234-1179

The information provided on this Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.

Observe all federal, provincial and state laws concerning health, safety and pollution.