Section 1. Identification

Product Name: VO Patch®
Effective Date: 15 May 2026 **Replaces:** 28 June 2024
Manufacturer Name: Silpro LLC
Address: 2 New England Way
Ayer, MA 01432-1514
24/7 EMERGENCY PHONE: INFOTRAC 800-535-5053 Call collect internationally 352-323-3500
Refer to ID# 84653
24/7 HEALTH EMERGENCIES: 800-222-1222 National Poison Control Center.

Section 2. Hazard(s) Identification

Emergency overview: Gray solid or powder with a little odor. VO Patch® may cause eye damage and skin irritation. Inhalation may cause respiratory irritation and ingestion may cause gastric distress.

GHS Pictograms:
GHS Signal Word: WARNING
POTENTIAL HEALTH EFFECTS:
CODE OF HAZARD STATEMENTS:

Physical hazards
None.
Health Hazards
H302, Harmful if swallowed.
H313, May be harmful in contact with skin.
H315, Causes skin irritation.
H320, Causes eye irritation.
H333, May be harmful if inhaled.
H350, May cause cancer.
Environmental hazards
H402, Harmful to aquatic life.

CODE OF PRECAUTIONARY STATEMENTS:

General
P101, Keep out of reach of children.
P103, Read label before use.
Prevention
P234, Keep only in original container.
P261, Avoid breathing dust.
P262 Do not get in eyes, on skin or on clothing.
P264, Wash thoroughly after handling.
P270, Do not eat, drink or smoke when using this product.
P280, Wear protective gloves/protective clothing/eye protection/face protection.
Response
P312, Call a POISON CENTER or doctor/physician if you feel unwell.
P331, DO NOT induce vomiting.
P340, Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P352, Wash with plenty of soap and water.
P362, Take off contaminated clothing and wash before reuse.
Storage
P402, Store in a dry place.
P403, Store in a well-ventilated area.

ROUTES OF ENTRY: Eye contact, skin adsorption, ingestion and inhalation.
CARCINOGENICITY: Crystalline silica is a carcinogen.

Section 3. Composition/Information on Ingredients

Ingredients

Component	CAS #	EINECS #	Percent	
Crystalline silica	14808-60-7	238-878-4	>30	
Portland cement	65997-15-1	266-043-4	>10	
Calcium oxide	1305-78-8	215-138-9	>5	
Iron (III) oxide	1309-37-1	215-168-2	>1	
Aluminum oxide, non-fibrous	1344-28-1	215-69-6	>1	
Aluminum sulfate	10043-01-3	233-135-0	>1	
Calcium sulfate	7778-18-9	231-900-3	>1	
Slag	65996-69-2	266-002-0	>1	
Vinyl acetate-ethylene copolymer	24937-78-8	429-840-1	>1	
Titanium dioxide	13463-67-7	236-675-5	>0.1	

Section 4. First Aid Measures

Eye Contact: Flush eyes with water immediately while holding eyelids open. Remove contacts, if worn, after initial flushing and continue flushing for at least 15 minutes. Seek medical attention if irritation persists.
Skin Contact: Use soap and water to remove from the skin, remove contaminated clothing, clean thoroughly before reuse. If irritation persists, contact a physician.
Inhalation: Move to fresh air. If not breathing, give rescue breathing. If breathing is difficult, give oxygen. Seek medical attention if breathing is still difficult.
Ingestion: If swallowed, get medical attention immediately. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person.

Section 5. Fire Fighting Measures

Flash Point: Not combustible.
Flammability Limits: NE.
Fire Fighting Media: Use dry chemical and carbon dioxide.
Special Fire Fighting Procedures: First responders need to wear full-bunker gear with SCBA, never enter a confined space unless fully protected with proper personal protective equipment (PPE).

Section 6. Accidental Release Measures

Use personal protective equipment, see section 8.
Clean-up Procedures: Stop the source of the release if you are not put at risk. Use absorbent material (such as sand or kitty litter) to absorb the spill, use shovel to pick up absorbent for disposal.
Spills and Leaks: Dispose in accordance to local, state or federal regulations.

Section 7. Handling and Storage

Handling: Do not get into eyes, on skin and on clothing. Do not breathe dusts or mists. Wash thoroughly after handling. Do not freeze. Keep out of sunlight.
Storage: Store in original labeled container. Keep in cool and dry areas.

Section 8. Exposure Controls/Personal Protection

Introductory Remarks: Consider the potential hazards of this product outlined in section 2. Use process exposures such as local exhaust ventilation, to control over exposure to airborne levels above recommended exposure limits.

Ingredient	OSHA PEL
Silica, fused	0.1 mg/m^3
Crystalline silica	10 mg/m^3
Portland cement	5 mg/m^3
Calcium oxide	2 mg/m^3
Aluminum sulfate	5 mg/m^3

Personal Protection:
Eyes: Wear safety goggles or safety glasses to prevent eye contact.
Body: Long sleeve shirts, long pants, socks, rubber boots and chemical-resistant gloves.
Hands: Neoprene chemical-resistant gloves.
Respiratory: Wear an approved respirator that provides protection from this product if the airborne concentrations exceed the recommended exposure limits.
Other: None.

Section 9. Physical and Chemical Properties

Odor/Color	Gray solid or powder/Slight odour	**Specific gravity (water=1)**	>2 @ 68°F (20°C)
Solubility	Soluble in water		

Section 10. Stability and Reactivity

Chemical Stability: Considered stable under normal ambient temperatures**.**
Hazardous Decomposition: If complete combustion, oxides of carbon and silicate are formed.
Hazardous Polymerization: Will not occur
Incompatibility - Materials to Avoid: Strong oxidizing agents and strong acids.

Section 11. Toxicological Information

The product is not toxic.
Acute Eye Irritation: Severe eye damage.
Acute Skin Irritation: May be irritating.
Acute Dermal Toxicity: Not expected to be toxic through the skin.
Acute Inhalation Toxicity: Not determined, expected to be an irritant to the respiratory system.
Carcinogenic Effects: Crystalline silica.

Section 12. Ecological Information

Ecotoxicity: The toxicity of this product has not been determined.
Environmental Fate: This product's environmental fate has not been determined.

Section 13. Disposal Considerations

Waste Disposal Method: Whatever cannot be saved for recovery or recycling should be managed by the local, state or Federal Regulations
Container Handling and Disposal: All containers should be disposed of according to local, state and Federal regulations.

Section 14. Transport Information

Ground Classification: Not regulated by US DOT.
Shipping Name: VO Patch®.
IATA or IMO: Not regulated.

Section 15. Regulatory Information

EPCRA 311/312 Categories:	Immediate (Acute) Health Effects:	Yes
	Delayed (Chronic) Health Effects:	No
	Fire Hazard:	No
	Sudden Release of Pressure	No
	Reactivity:	No

Right to know classification: Crystalline silica in the United States.
TSCA: None of the ingredients are listed.
Reportable Quantity (RQ): None.
Prop. 65: Crystalline silica.
All ingredients are listed in chemical inventories of ACIS, ECL, EEC, ENCS, EU, Israel, MAC, MAK, MITI, PICCS, SWISS, Taiwan, USA and UK.

Abbreviations:

CAS #	Chemical Abstract Service Number	EINECS	European Inventory of existing Commercial Chemical Sales
ºC	Celsius temperature scale	ºF	Fahrenheit temperature scale
Prop.	Proprietary	PE	Personal Protective Equipment
TLV	Threshold Limit Value	TWA	Time Weighted Average
STEL	Short-term Exposure Limit	PEL	Permissible Exposure Limit
OSHA	Occupational Safety & Health	NIOSH	National Institute of Safety & Health
NFPA	National Fire Protection Agency	WHMIS	Workplace Hazardous Materials Information

		System	
NTP	National Toxicology Program	IARC	Int. Agency for Research on Cancer
RCRA	Resource Conservation Recovery Act	TSCA	Toxic Substance Control Act
EC_{50}	Effective Dose	LC_{50}	Lethal Inhalation Concentration
LD_{50}	Lethal Dose	CAS	Chemical Abstract Service Number
LEL	Lower explosive limit	UEP	Upper explosive limit
NDA	No Data Available	ND	Not determined
NE	None established	NA	Not Applicable
≤	Less Than or Equal To	≥	Greater Than or Equal To
CNS	Central Nervous System	CI	China
DSL	Canada	ECL	Korean Existing Chemicals List
EEC	European Economic Commission	ENCS	Japanese Existing and New Chemical List
EU	European Union	MAC	Netherlands
MAK	Germany	MITI	Japan
PICCS	Philippines	SWISS	Giftliste 1
UK	United Kingdom	USA	United States
VOC	Volatile organic content		
ACGIH	American Conference of Government Industrial Hygienists		
SARA	Superfund Amendments and Reauthorization Act		
AICS	Australian Inventory of Chemical Substances		
IARC	International Agency for Research on Cancer		
Taiwan	List of Toxic Chemical Substances regulated under Taiwan Toxic Chemical Substances Control Act of 1086		

Section 16. Other Information

Hazardous Material Information (HMIS) **National Fire Protection Association (NFPA)**

Health	1	1	Health
Fire	0	0	Fire
Reactivity	0	0	Instability
Personal Protection	E		NA

Health 4 Deadly 3 Extreme Danger 2 Dangerous 1 Slight hazard 0 No hazard
Fire 4 < 73 ºC 3 < 100 ºC 2 < 200 ºC 1 >200 ºC 0 Will not burn
Reactivity/Instability 4 – May detonate 3 Explosive 2 Unstable 1 Normally stable 0 Stable

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