

SAFETY DATA SHEET



SECTION 1: IDENTIFICATION

Product Name	VSETM-007
Product Number	107109, 107119
Recommended Use	For research and development use only.
Restrictions on Use	Not for human or veterinary use.
Company Information	Virica Biotech Inc. 7 Bayview Station Road Ottawa, ON, K1Y 2C5 Canada
Emergency Contact	T: +1 613-608-7924 (09:00-17:00 EST)

SECTION 2: HAZARDOUS IDENTIFICATION

GHS Classification	GHS Classification in accordance with 29 CFR 1910 (OSHA HCS). Skin corrosion/irritation, Category 2 Serious eye damage/ irritation, Category 2A Specific target organ toxicity, single exposure; Respiratory tract irritation, Category 3	
GHS Label Elements		
Product Name	VSETM-007	
Pictogram		
Signal word	Warning	
Hazard statement(s)	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
Precautionary statement(s)	P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
	P264	Wash hands thoroughly after handling. Wash skin thoroughly after handling.
	P271	Use only outdoors or in a well-ventilated area.
	P280	Wear protective gloves/protective clothing/eye-protection/face protection.
	P302+P352	IF ON SKIN: wash with plenty of water.
	P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P312	Call a POISON CENTER or doctor/physician if you feel unwell.
	P332+P313	IF SKIN irritation occurs: Get medical advice/attention.
	P337+P313	IF eye irritation persists: Get medical advice/attention.
	P362	Take off contaminated clothing and wash before reuse.
	P403+P233	Store in a well-ventilated place. Keep container tightly closed.
	P405	Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

Other Hazards None
Additional Information None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name/ Component	CAS No.	Concentration
Proprietary heterocyclic substituted compound (VSE™-007)	Trade Secret	Trade Secret

SECTION 4: FIRST AID MEASURES

First Aid Measures

- Inhalation** Immediately relocate self or casualty to fresh air. If breathing is difficult, give cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation.
- Skin Contact** Rinse skin thoroughly with large amounts of water. Remove contaminated clothing and shoes and call a physician.
- Eye Contact** Remove any contact lenses, locate eye-wash station, and flush eyes immediately with large amounts of water. Separate eyelids with fingers to ensure adequate flushing. Promptly call a physician.
- Ingestion** Wash out mouth with water; Do NOT induce vomiting; call a physician.

Most Important Symptoms and Effects

The most important known symptoms and effects are described in the labelling (see section 2).

Immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media

- Suitable Extinguishing Media** Use water spray, dry chemical, foam, and carbon dioxide fire extinguisher.
- Unsuitable Extinguishing Media** Unknown.

Specific Hazards Arising from the Hazardous Product

During combustion, may emit irritant and toxic fumes.

Special Protective Equipment and Precautions for Fire-Fighters

Wear self-contained breathing apparatus and protective clothing. Fight fire from a safe distance and with normal precautions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Use full personal protective equipment. Avoid breathing vapors, mist, dust or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Refer to protective measures listed in sections 8.

Environmental Precautions

Try to prevent further leakage or spillage. Keep the product away from drains or water courses.

Method and Materials for Containment and Cleaning Up

Absorb solutions with finely powdered liquid-binding material (diatomite, universal binders); Decontaminate surfaces and equipment by scrubbing with alcohol; Dispose of contaminated material according to Section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid inhalation of dusts, mists, or aerosols. Avoid contact with eyes and skin. Use only in well-ventilated areas with appropriate local exhaust ventilation. Follow good industrial hygiene practices.

Conditions for safe storage

Keep container tightly sealed in cool, well-ventilated area. Keep away from direct sunlight and sources of ignition.

Storage Temperature Room temperature, -80°C upon dissolution.

Storage Life Not determined. Stability studies are ongoing. Contact us for more information.

Specific End Use(s) For research and development use only. Not for human or veterinary use.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
VSE™-007	Not established	Not established	Not established

Appropriate Engineering Controls

Engineering Measures Ensure adequate ventilation. Provide accessible safety shower and eye wash station.

Individual Protection Measures

Eye/Face Protection Safety goggles with side-shields or chemical splash goggles.

Skin and Body Protection Protective gloves suitable for chemical handling (e.g., nitrile) and lab coat or other appropriate chemical-resistant protective clothing.

Respiratory Protection	Not normally required under standard laboratory conditions. Use a NIOSH-approved respirator if engineering controls are insufficient or during spill response.
Hygiene Measures	Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product. Remove contaminated clothing and wash before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	White Solid
Color	White
Odor	No data available
Odor Threshold	No data available
Property	
Melting Point/Freezing point	149.7°F / No data available.
Boiling point/ boiling range	No data available
Flash Point	No data available
Flammability	No data available
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Flammability Limits in Air	No data available
Upper Flammability Limit	No data available
Lower Flammability Limit	No data available
Vapour Pressure	No data available
Vapour Density	No data available
Specific Gravity	No data available
Water Solubility	No data available
Solubility in Other Solvents	Soluble in 100% DMSO at 10mM
Partition Coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Kinematic Viscosity	No data available
Dynamic Viscosity	No data available
Explosive Properties	No data available
Oxidizing Properties	No data available
Other Information	
Softening Point	No data available
VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribution	No data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Incompatible materials	Strong acids/alkalis, strong oxidising/reducing agents.
Hazardous decomposition products	Under fire conditions, may decompose and emit toxic fumes. Other decomposition products - no data available.

SECTION 11: TOXOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation	May cause respiratory irritation.
Eye Contact	Causes serious eye irritation.
Skin Contact	Causes skin irritation.
Ingestion	Harmful effects not expected under normal conditions of use. Ingestion is not an intended route of exposure.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
VSE™-007	No data available	No data available	No data available

Information on Toxicological Effects

Symptoms	Symptoms may include redness, irritation, and discomfort to the skin and eyes. Inhalation may cause respiratory tract irritation.
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Delayed and Immediate Effects as Well as Chronic Effects from Short and Long-Term Exposure

Sensitization	No data available
Mutagenic Effects	Not mutagenic based on Ames bacterial reverse mutation assay up to 1.0×10^{-4} M (highest concentration tested)
Carcinogenicity	No data available

Chemical Name	ACGIH	IARC	NTP	OSHA
VSE™-007	Not listed	Not listed	Not listed	Not listed

Reproductive Toxicity	No data available
STOT - Single Exposure	May cause respiratory irritation.
STOT – Repeated Exposure	
Chronic Toxicity	No data available
Target Organ Effects	No data available

Aspiration Hazard Not classified as an aspiration hazard.

Numerical Measure of Toxicity – Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	Not applicable
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ATEmix (inhalation-dust/mist) Not applicable

Germ Cell Mutagenicity

Bacterial reverse mutation assay (AMES test) Negative:
The substance did not induce gene mutations in Salmonella typhimurium strains tested, with and without metabolic activation.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Persistence and Degradation	No data available
Bioaccumulation Potential	No data available
Mobility in Soil	No data available
Other Adverse Effects	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods	Dispose substance in accordance with prevailing country, federal, state and local regulations.
Contaminated Packaging	Conduct recycling or disposal in accordance with prevailing country, federal, state and local regulations. Empty containers may retain residue and should be handled with appropriate precautions.

SECTION 14: TRANSPORT INFORMATION

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
Transport Hazard Class(es)	Not regulated
Packing Group	Not applicable
Environmental Hazards	Not applicable
Transport in Bulk	Not applicable
Special Precautions	No special precautions required

SECTION 15: REGULATORY INFORMATION

Chemical Inventories

TSCA	The chemical substance is subject to the Toxic Substances Control Act (TSCA). The specific chemical identity is withheld as a trade secret in accordance with TSCA requirements.
DSL/NDSL	Not determined

U.S. 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 which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

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

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

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 product does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

EPA Statement

This product is intended for research and development use only and is not intended for commercial, consumer, or environmental release.

California Proposition 65

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

SECTION 16: OTHER INFORMATION

Revision Date	14 April 2026
Version	1.0
Reason for Revision	First issue of U.S. SDS
Additional Information	None.

Disclaimer

The information provided in this Safety Data Sheet is believed to be accurate and represents the best information currently available to us. However, no warranty, express or implied, is made regarding the accuracy or completeness of this information. The information is intended to provide guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification.