

SAFETY DATA SHEET (SDS): According to the OSHA Hazard Communication Standard 29 CFR 1910.1200

SECTION 1. Identification

Product identifier

Product number 14255
Product name Vinblastine
UN number UN1544
Other means of identification 14255S, 14255L

Recommended use of the chemical and restrictions on use

Identified uses This product is intended for research purposes only.

Uses advised againstThis product is not intended for use in diagnostic procedures or therapeutics.

This product is not intended for use in humans or animals.

Manufacturer, importer, supplier

Manufacturer address Cell Signaling Technology, Inc.

3 Trask Lane Danvers, MA 01923 United States

TEL: +1 978 867 2300 FAX: +1 978 867 2400 www.cellsignal.com support@cellsignal.com

Company phone number 978-867-2300

Emergency telephone number In case of emergency call CHEMTREC 1-800-424-9300

SECTION 2. Hazard(s) identification

Classification

Email address

Website

This substance/mixture is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 2
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity - single exposure (STOT SE)	Category 2

GHS Label elements, including precautionary statements



Signal Word Danger

Hazard statement(s)

Fatal if swallowed
Causes skin irritation

Causes serious eye damage

Suspected of damaging fertility or the unborn child

May cause damage to organs

Precautionary Statement(s)

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wash face, hands and any exposed skin thoroughly after handling

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Store locked up

Dispose of contents/container to an approved waste disposal plant

Supplementary Hazard Information

Hazards not otherwise classified (HNOC) None

SECTION 3. Composition/information on ingredients

 Formula
 C46H56N4O9·H2SO4

 Molecular Weight
 909.05 g/mol

Chemical nature Monoconstituent substance

Synonyms Velsar; Velbar; Velbe; Vincaleukoblastine, sulfate; Vincaleukoblastine, sulfate (1:1) (salt);

Uniblastin.

Chemical Name	CAS No	Weight %
vinblastine sulphate	143-67-9	100

SECTION 4. First-aid measures

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash skin with soap and water.

Inhalation Move to fresh air.

Ingestion Clean mouth with water and afterwards drink plenty of water.

Most important symptoms and effects, both acute and delayed

Common adverse reactions from prescribed doses include: leukopenia, alopecia, constipation, numbness of digits, hypertension, malaise, bone pain, weakness, jaw pain. Occupational exposure has not been fully investigated.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Vinblastine sulfate in the dry state is irregularly and unpredictably absorbed from the gastrointestinal tract following oral administration. Absorption of the solution has not been studied. If Vinblastine is swallowed, activated charcoal in a water slurry may be given by mouth along with a cathartic.

Advice for emergency responders

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General advice

For further assistance, contact your local Poison Control Center.

Protection of first-aiders

Ensure that medical personnel are aware of the material(s) involved, and take precautions

to protect themselves.

SECTION 5. Fire-fighting measures

Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable Extinguishing Media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

No information available.

Explosion Data

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

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Other information

Ensure adequate ventilation. No information available.

Environmental precautions

See Section 12 for additional information.

Methods and material for containment and cleaning up

Methods for containment Methods for cleaning up

Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labeled containers.

SECTION 7. Handling and storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage

conditions

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

No information available. Packaging material

Incompatible products None known based on information supplied.

SECTION 8. Exposure controls/personal protection

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment

Personal protective equipment (PPE) needs to be selected depending on the implemented engineering controls, frequency/duration of work activities and the concentrations of the hazardous substance.

Eye/face protection Skin and body protectionSafety glasses with side-shields.
Wear protective gloves/clothing.

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid

Appearance Crystalline powder
Odor No information available
Color White to off-white

Odor Threshold No information available

pH No information available

Melting point/freezing point 267 °C

Initial boiling point and boiling No information available

range

No information available. Flash point No information available **Evaporation rate** Flammability (solid, gas) No information available **Upper flammability limit** No information available. No information available. Lower flammability limit No information available Vapor pressure Vapor density No information available Relative density No information available Solubility No information available. Solubility in other solvents No information available Partition coefficient: n-octanol/waterNo information available **Autoignition temperature** No information available **Decomposition temperature** No information available. **Explosive properties** No information available No information available Oxidizing properties

Molecular Weight 909.05 g/mol

VOC contentNo information availableViscosityNo information available.DensityNo information available.

SECTION 10. Stability and reactivity

Reactivity

No information available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous reactions None under normal processing. Hazardous polymerization None under normal processing.

Conditions to Avoid

No information available.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

SECTION 11. Toxicological information

Information on likely routes of exposure

InhalationMay cause irritation of respiratory tract.Eye contactMay cause irreversible damage to eyes.

Skin contact Irritating to skin.

Ingestion May be fatal if swallowed.

Information on toxicological effects

This material should only be handled by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals. It should be borne in mind that the toxocological and physiological properties of this compound is not well defined.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
vinblastine sulphate	7 mg/kg (Rat)	-	-

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

Symptoms Common adverse reactions from prescribed doses include: leukopenia, alopecia,

constipation, numbness of digits, hypertension, malaise, bone pain, weakness, jaw pain.

Occupational exposure has not been fully investigated. Causes skin irritation.

Skin corrosion/irritation

Serious eye damage/eye

irritation

Risk of serious damage to eyes.

Sensitization No information available.

Mutagenic effects Chromosomal translocations did occur in male mice. In-vitro tests using hamster lung cells

in culture have produced chromosomal changes, including chromatid breaks and exchanges, whereas tests using another type of hamster cell failed to demonstrate mutation. Breaks and aberrations were not observed on chromosome analysis of marrow cells from patients being treated with this drug. Negative in the Salmonella typhimurium

reverse mutation assay.

Carcinogenicity Not classifiable as to its carcinogenicity to humans

Chemical Name	IARC	NTP	OSHA
vinblastine sulphate	3	-	-
143-67-9			

Reproductive toxicity

This material is classified as a Pregnancy Category D: Positive evidence of risk. Aspermia

has been reported in man.

STOT - single exposure
STOT - repeated exposure
Neurological effects
Aspiration Hazard
Hematologic system, Respiratory system, Central nervous system.
No information available.
No information available.
No information available.

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Other information

Vinca alkaloids have rarely caused vestibular and auditory damage to the eighth cranial nerve. Manifestations include partial or total deafness which may be temporary or permanent and difficulties with balance including dizziness, nystagmus and vertigo.

SECTION 12. Ecological information

Ecotoxicity

Product does not present an aquatic toxicity hazard based on known or supplied information.

Persistence and degradability Bioaccumulation **Mobility**

No information available. No information available. No information available

Other adverse effects

No information available.

SECTION 13. Disposal considerations

Waste Disposal Methods

Dispose of in accordance with all applicable national environmental laws and regulations.

Disposal considerations

Do not empty into drains; dispose of this material and its container in a safe way.

SECTION 14. Transport information

DOT

UN number UN1544 (vinblastine sulphate)

Transport hazard class(es) 6.1 Packing group Ш

IB8, IP2, IP4, T3, TP33 Special provisions

Emergency response guide 151

number

IATA

UN number UN1544

UN proper shipping name Alkaloids, solid, n.o.s. (vinblastine sulphate)

Transport hazard class(es) 6.1 Ш Packing group 6L **ERG** code

SECTION 15. Regulatory information

North American Inventory Listing

Chemical Name	TSCA 8(b)	TSCA 12(b)	DSL	NDSL
vinblastine sulphate	Not Listed	Not Listed	Not Listed	Not Listed

Canadian Workplace Hazardous Materials Information System (WHMIS) Classification



Class D1A - Very Toxic Materials at >= 1% Class D2A - Very Toxic Material at >= 0.1% Class D2B - Toxic Material at >= 1%

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

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
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 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.

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
vinblastine sulphate	Developmental

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

U.S. FIFRA Label Information

This product does not contain any substances regulated as pesticides.

US Commerce Department - Export Administration Regulations Information

This product does not contain any substances regulated under the Chemical Weapons Convention (CWC).

U.S. Drug Enforcement Administration Information

This product does not contain any substances regulated under the DEA.

SECTION 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 a 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