

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

SECTION 1. Identification

Product identifier

Product No. 13043
Product name Vincristine
UN number UN2811
Other means of identification 13043S

Recommended use of the chemical and restrictions on use

Identified usesThis 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 TEL: +1 978 867 2300 FAX: +1 978 867 2400 www.cellsignal.com

Website www.cellsignal.com
Email address 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

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

Acute toxicity - Oral	Category 2
Germ cell mutagenicity	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity - repeated exposure (STOT RE)	Category 2

GHS Label elements, including precautionary statements



Signal Word

Danger

Hazard statement(s)

Fatal if swallowed

Suspected of causing genetic defects

Suspected of damaging fertility or the unborn child

May cause damage to organs through prolonged or repeated exposure

Precautionary Statement(s)

Obtain special instructions before use

Do not breathe dust

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Supplementary Hazard Information

Hazards not otherwise classified (HNOC) None.

SECTION 3. Composition/information on ingredients

Formula C46H56N4O10+ H2SO4

Molecular Weight

Chemical nature Monoconstituent substance

923.04

Synonyms 22-oxovincaleukoblastine; Vincristinesulfate salt; VCR; Leurocristinesulfate salt; Marqibo;

Oncovin; Vincrex; Alkaloid extracted from Vinca rosea Linn

Chemical Name	CAS No.	Weight %
vincristine sulfate	2068-78-2	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.

InhalationMove to fresh air.IngestionRinse mouth.

Most important symptoms and effects, both acute and delayed

Nausea, pyrexia, fatigue, peripheral neuropathy, febrile neutropenia, diarrhea, constipation, anemia, decreased appetite, and insomnia.

Indication of any immediate medical attention and special treatment needed

Notes to physician Monitor patients for liver function, peripheral motor and sensory, central and autonomic

neuropathy.

Advice for emergency responders

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 Ensure adequate ventilation.

Other information No information available.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize

spreading and keep powder dry. Take up mechanically and collect in suitable container for

disposal. Avoid dust formation. Clean contaminated surface thoroughly.

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

conditions

Packaging material No information available.

Incompatible productsNone 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 protectionSafety glasses with side-shields. **Skin and body protection**Wear protective gloves/clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

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. Do not eat, drink or smoke when using this product.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid

Hygiene measures

AppearanceCrystalline powderOdorNo information available

Color White

Odor Threshold
pH
No information available

range

No information available Flash point **Evaporation rate** No information available Flammability (solid, gas) No information available Upper flammability limit No information available Lower flammability limit No information available No information available Vapor pressure Vapor density No information available Relative density No information available Partly soluble

Solubility Partly soluble
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
Oxidizing properties No information available

Molecular Weight 923.04

VOC content
Viscosity
No information available
No information available
No information available

SECTION 10. Stability and reactivity

Reactivity

No information available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous reactionsNone 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

InhalationThere is no data available for this product.Eye contactThere is no data available for this product.Skin contactThere is no data available for this product.IngestionThere is no data available for this product.

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.

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

Symptoms Nausea, pyrexia, fatigue, peripheral neuropathy, febrile neutropenia, diarrhea, constipation,

anemia, decreased appetite, and insomnia.

CorrosivitySensitization
No information available.
No information available.

Mutagenic effectsGenotoxic in some animal in vitro and in vivo studies.CarcinogenicityNot classifiable as to its carcinogenicity to humans

Chemical Name	IARC	NTP	OSHA
vincristine sulfate	Group 3	-	-
2068-78-2			

Reproductive toxicity This material is classified as a Pregnancy Category D: Positive evidence of risk. Rat

toxicology study results indicated testicular degeneration, atrophy and epididymal aspermia.

STOT - single exposure No information available.

STOT - repeated exposure In a repeat-dose toxicology study in rats (injection @ 2 mg/m2/week for 6 weeks),

uncoordinated movements, weakness, reduced muscle tone, and limited usage of the limbs

was observed. Histopathology examination found evidence of peripheral neurotoxicity

(nerve fiber degeneration) and secondary skeletal muscle atrophy. Liver, Peripheral Nervous System (PNS), Reproductive system.

Target Organ EffectsLiver, Peripheral Nervous S **Neurological effects**No information available.

Revision Date: 2014-03-20 13043 - Vincristine

Aspiration Hazard No information available.

SECTION 12. Ecological information

Ecotoxicity

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability No information available. **Bioaccumulation** No information available. Mobility 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.

SECTOIN 14. Transport information

DOT

UN number UN2811

UN proper shipping name Toxic solid, organic, n.o.s. (vincristine sulfate)

Transport hazard class(es) 6.1 **Packing Group**

Special precautions for user IB8, IP2, IP4, T3, TP33

Emergency Response Guide

Number

154

IATA

UN number UN2811

UN proper shipping name Toxic solid, organic, n.o.s. (vincristine sulphate)

Transport hazard class(es) **Packing Group** Special precautions for user A3,A5

IMDG/IMO

UN number UN2811

UN proper shipping name Toxic solid, organic, n.o.s. (vincristine sulphate)

Transport hazard class(es) 6.1 Ш Packing group

EmS No. F-A, S-A Special precautions for user 274

SECTION 15. Regulatory information

North American Inventory Listing

Component	TSCA	DSL	NDSL
vincristine sulfate	Not Listed	Not Listed	Not Listed
2068-78-2 (100)			

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
vincristine sulfate	Developmental
2068-78-2	·

U.S. State Right-to-Know Regulations

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

U.S. EPA Label Information

This product does not contain any substances regulated as pesticides.

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