

**Safety Data Sheet (SDS)** According to the REACH Regulation (EC) No. 1907/2006

**Issuing Date:** 2014-03-20

**Revision Date:** 2017-08-31

**Version:** 2

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product No** 13043  
**Product name** Vincristine  
**Reach registration number** This substance/mixture contains only ingredients which have been registered, or are exempt from registration, according to Regulation (EC) No. 1907/2006.

### Contains

**Formula**  $C_{46}H_{56}N_4O_{10} \cdot H_2SO_4$   
**Molecular Weight** 923.04  
**Other means of identification** 13043S

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** For research use only

### 1.3. Details of the supplier of the safety data sheet

<b>Importer (Applicable in EU only)</b>	<b>Manufacturer</b>
Cell Signaling Technology Europe B.V.	Cell Signaling Technology, Inc.
Schuttersveld 2	3 Trask Lane
2316 ZA Leiden	Danvers, MA 01923
The Netherlands	United States
TEL: +31 (0)71 7200 200	TEL: +1 978 867 2300
FAX: +31 (0)71 891 0098	FAX: +1 978 867 2400

**Website** [www.cellsignal.com](http://www.cellsignal.com)  
**E-mail Address** [info@cellsignal.eu](mailto:info@cellsignal.eu)

### 1.4. Emergency telephone number

**CHEMTREC** 24 hours a day, 7 days a week, 365 days a year  
+1 703 527 3887 (INTERNATIONAL) +1 800 424 9300 (NORTH AMERICA)

**Europe** 112

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Regulation (EC) No. 1272/2008**

<b>Acute oral toxicity</b>	Category 2 - (H300)
<b>Germ cell mutagenicity</b>	Category 2 - (H341)
<b>Reproductive toxicity</b>	Category 2 - (H361)
<b>Specific target organ toxicity - repeated exposure (STOT RE)</b>	Category 2 - (H373)

**2.2. Label elements**

**Signal word**  
Danger

**Hazard statement(s)**

H300 - Fatal if swallowed

H341 - Suspected of causing genetic defects

H361 - Suspected of damaging fertility or the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

**Precautionary statement(s)**

P201 - Obtain special instructions before use

P260 - Do not breathe dust

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P330 - Rinse mouth

**2.3. Other hazards**

None under normal use conditions.

## SECTION 3: Composition/information on ingredients

**3.1 Substances****Synonyms**

22-oxovincal leukoblastine; Vincristinesulfate salt; VCR; Leurocristinesulfate salt; Marqibo; Oncovin; Vincrex; Alkaloid extracted from Vinca rosea Linn

**Formula**

$C_{46}H_{56}N_4O_{10} \cdot H_2SO_4$

**Chemical nature**

Monoconstituent substance.

Chemical Name	CAS No	Weight %	EC No	Classification (1272/2008)	REACH Registration Number
vincristine sulfate	2068-78-2	100	218-190-0	Acute Tox. 2 (H300) Muta. 2 (H341) Repr. 2 (H361) STOT RE 2 (H373)	no data available

For the full text of the H-phrases & EUH-phrases mentioned in this Section, see Section 16

## SECTION 4: First aid measures

**4.1. Description of first aid measures****General advice**

Use first aid treatment according to the nature of the injury. When symptoms persist or in all cases of doubt seek medical advice.

**Inhalation**

Move to fresh air.

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<b>Skin contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Ingestion</b>	Rinse mouth.

### **4.2. Most important symptoms and effects, both acute and delayed**

Nausea, tiredness, peripheral neuropathy, Diarrhea, Constipation, Insomnia, Loss of appetite, Pyrexia, febrile neutropenia, anemia.

### **4.3. Indication of any immediate medical attention and special treatment needed**

<b>Notes to physician</b>	Monitor patients for liver function, peripheral motor and sensory, central and autonomic neuropathy.
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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable Extinguishing Media</b>	No information available.

### **5.2. Special hazards arising from the substance or mixture**

Thermal decomposition can lead to release of irritating gases and vapors.

### **5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

<b>For non-emergency personnel</b>	Evacuate personnel to safe areas. Ensure adequate ventilation.
<b>For emergency responders</b>	Use personal protection recommended in Section 8.

### **6.2. Environmental precautions**

Do not flush into surface water or sanitary sewer system.

### **6.3. Methods and material for containment and cleaning up**

<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

### **6.4. Reference to other sections**

See Sections 8 & 13 for additional information.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

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

### **7.2. Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place.

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**7.3. Specific end use(s)**

Use as a laboratory reagent.

<b>SECTION 8: Exposure controls/personal protection</b>
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**8.1. Control parameters****8.2. Exposure controls****Appropriate engineering controls**

Showers, eyewash stations, and ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Safety glasses with side-shields.

**Skin protection**

**Hand protection** Impervious gloves.

**Other** Wear suitable protective clothing.

**Respiratory protection** In case of inadequate ventilation wear respiratory protection.

**Environmental Exposure Controls**

No information available.

<b>SECTION 9: Physical and chemical properties</b>
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**9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	Solid
<b>Appearance</b>	Crystalline Powder
<b>Color</b>	White
<b>Odor</b>	No information available
<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		No information available
Melting point/freezing point		No information available
Initial boiling point and boiling range		No information available
Flash point		No information available.
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Upper flammability limit		No information available
Lower flammability limit		No information available
Vapor pressure		No information available
Vapor density		No information available
Relative density		No information available
Solubility	Partly soluble	No information available
Partition coefficient: n-octanol/water		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available.
Viscosity		No information available
Explosive properties		No information available
Oxidizing properties		No information available

**9.2. Other information**

<b>Softening point</b>	No information available
<b>Molecular Weight</b>	923.04
<b>Solubility in other solvents</b>	No information available

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**VOC content** No information available  
**Density** No information available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No information available.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

**Hazardous polymerization** Hazardous polymerization does not occur.  
**Hazardous reactions** None under normal processing.

#### 10.4. Conditions to avoid

None known based on information supplied.

#### 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

None under normal use conditions.

### SECTION 11: Toxicological information

#### 11.1. 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 toxicological and physiological properties of this compound is not well defined.

**ATEmix (oral)** 5 mg/kg

#### **Information on likely routes of exposure**

**Inhalation** There is no data available for this product.  
**Eye contact** There is no data available for this product.  
**Skin contact** There is no data available for this product.  
**Ingestion** There is no data available for this product.

**Symptoms** Nausea. tiredness. peripheral neuropathy. Diarrhea. Constipation. Insomnia. Loss of appetite. Pyrexia. febrile neutropenia. anemia.  
**Skin corrosion/irritation** No information available.  
**Serious eye damage/eye irritation** No information available.  
**Sensitization** No information available.  
**Mutagenic effects** Genotoxic in some animal in vitro and in vivo studies.  
**Carcinogenic effects** No information available.  
**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. Malformations were observed at doses = 0.044 mg/kg/day in animals at systemic exposures.  
**Teratogenicity**  
**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

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<b>Target Organ Effects</b>	was observed. Histopathology examination found evidence of peripheral neurotoxicity (nerve fiber degeneration) and secondary skeletal muscle atrophy.
<b>Aspiration Hazard</b>	Liver, Peripheral Nervous System (PNS), Reproductive system.
<b>Other information</b>	No information available. Fatal liver toxicity and elevated levels of aspartate aminotransferase have occurred.

### SECTION 12: Ecological information

#### 12.1. Toxicity

No information available.

<b>Unknown Aquatic Toxicity</b>	100% of the mixture consists of components of unknown hazards to the aquatic environment.
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#### 12.2. Persistence and degradability

No information available.

#### 12.3. Bioaccumulative potential

<b>Bioaccumulation</b>	No information available.
<b>Bioconcentration factor (BCF)</b>	No information available.

#### 12.4. Mobility in soil

No information available.

#### 12.5. Results of PBT and vPvB assessment

No information available.

#### 12.6. Other adverse effects

No information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>Other information</b>	Waste codes should be assigned by the user based on the application for which the product was used.

### SECTION 14: Transport information

#### **IMDG/IMO**

<b>14.1 UN number</b>	UN2811
<b>14.2 UN proper shipping name</b>	(vincristine sulphate)
<b>14.3 Transport hazard class(es)</b>	6.1
<b>14.4 Packing group</b>	II
<b>14.5 Environmental hazards</b>	None
<b>14.6 Special precautions for user</b>	None
<b>EmS No.</b>	F-A, S-A
<b>14.7 Transport in bulk according to</b>	Not regulated

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### Annex II of MARPOL 73/78 and the IBC Code

#### ADR/RID

14.1 UN number	UN2811
14.2 UN proper shipping name	(vincristine sulphate)
14.3 Transport hazard class(es)	6.1
14.4 Packing group	II
14.5 Environmental hazards	None
14.6 Special precautions for user	None
Classification Code	T2
Tunnel Restriction Code	(D/E)

#### IATA

14.1 UN number	UN2811
14.2 UN proper shipping name	(vincristine sulphate)
14.3 Transport hazard class(es)	6.1
14.4 Packing group	II
14.5 Environmental hazards	None
14.6 Special precautions for user	None
Special provisions	A3,A5

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Candidate List of Substances of Very High Concern for Authorization Information

This product does not contain Substances of Very High Concern (SVHC).

#### SEVESO Directive Information

This product does not contain substances identified in the SEVESO Directive.

#### International inventories

TSCA 8(b)	-
DSL/NDSL	-
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	-
KECL	-
PICCS	Complies
AICS	Complies

#### International inventories legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
ENCS - Japan Existing and New Chemical Substances  
IECSC - China Inventory of Existing Chemical Substances  
KECL - Korean Existing and Evaluated Chemical Substances  
PICCS - Philippines Inventory of Chemicals and Chemical Substances  
AICS - Australian Inventory of Chemical Substances

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out

## SECTION 16: Other information

### Full text of H-Statements referred to under Sections 2 and 3

H300 - Fatal if swallowed

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H341 - Suspected of causing genetic defects

H361 - Suspected of damaging fertility or the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

**Classification procedure:** Expert judgment and weight of evidence determination.

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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.