

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

Issuing Date: 2014-11-26

**Revision Date:** 2017-08-01

Version: 3

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

1.1. Product identifier

Product No Product name Reach registration number 2190 Nocodazole This substance/mixture contains only ingredients which have been registered, or are exempt from registration, according to Regulation (EC) No. 1907/2006.

CAS No

31430-18-9

Contains

Formula

Chemical Name nocodazole (90 - 100%) Index No. Not Listed

C14H11N3O3S 301.32 g/mol

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

Identified uses

**Molecular Weight** 

For research use only

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

Importer (Applicable in EU only)	Manufacturer
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

 E-mail Address
 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

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## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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

Germ cell mutagenicity	Category 2 - (H341)
Reproductive toxicity	Category 2 - (H361)

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

## 2.2. Label elements



Signal word Warning

#### Hazard statement(s)

H341 - Suspected of causing genetic defects H361 - Suspected of damaging fertility or the unborn child

#### Precautionary statement(s)

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P281 - Use personal protective equipment as required
P308 + P313 - IF exposed or concerned: Get medical advice/attention
P405 - Store locked up
P501 - Dispose of contents/container to an approved waste disposal plant

#### 2.3. Other hazards

None under normal use conditions

# **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Synonyms
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Oncodazole; Methyl 5-(2-thenoyl)-2-benzimidazolecarbamate; Carbamic acid, (5-(2-thienylcarbonyl)-1H-benzimidazol-2-yl)-, methyl ester; 2-Benzimidazolecarbamic acid, 5-(2-thenoyl)-, methyl ester (8Cl).  $C_{14}H_{11}N_3O_3S$ Monoconstituent substance.

#### Formula Chemical nature

Chemical Name	CAS No	Weight %	EC No	Classification (1272/2008)	REACH Registration Number
nocodazole	31430-18-9	100	250-626-5	Muta. 2 (H341) Repr. 2 (H361)	no data available

For the full text of the R-phrases mentioned in this Section, see Section 16

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Inhalation	Immediate medical attention is required. Move to fresh air. If not breathing, give artificial respiration.
Skin contact	Immediate medical attention is required. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

## 2190 Nocodazole

Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.
Ingestion	Do NOT induce vomiting. Immediate medical attention is required. Never give anything by mouth to an unconscious person. Drink plenty of water.
Protection of first-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

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

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

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

## **Notes to physician** Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable Extinguishing MediaUse extinguishing measures that are appropriate to local circumstances and the<br/>surrounding environment.Unsuitable Extinguishing MediaNo 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

For non-emergency personnel	Use personal protective equipment.
For emergency responders	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

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

#### 6.4. Reference to other sections

See Sections 8 & 13 for additional information.

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

#### 7.1. Precautions for safe handling

Wear personal protective equipment. Ensure adequate ventilation. When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs.

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

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

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

Use as a laboratory reagent.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

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

## 8.2. Exposure controls

Appropriate engineering controls Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment			
Eye/face protection	Tightly fitting safety goggles.		
Skin protection			
Hand protection	Impervious gloves.		
Other	Impervious gloves. Impervious clothing.		
Respiratory protection	In case of inadequate ventilation wear respiratory protection.		

#### **Environmental Exposure Controls**

Local authorities should be advised if significant spillages cannot be contained. Do not allow material to contaminate ground water system. Prevent product from entering drains.

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state Appearance Color Odor Odor Threshold	Solid Powder Yellow, light red No information available No information available	
<u>Property</u> pH Melting point/freezing point	<u>Values</u>	Remarks • Method No information available
Initial boiling point and boiling range	101-120 0	No information available
Flash point Evaporation rate		No information available. No information available
Flammability (solid, gas)		No information available
Upper flammability limit Lower flammability limit		No information available No information available
Vapor pressure		No information available
Vapor density		No information available No information available
Relative density Solubility		No information available
Partition coefficient: n-octanol/wat	er	No information available
Autoignition temperature		No information available
Decomposition temperature Viscosity		No information available.
Explosive properties		No information available
Oxidizing properties		No information available

9.2. Other information Softening point Molecular Weight Solubility in other solvents VOC content Density

No information available 301.32 g/mol No information available No information available 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.

#### Information on likely routes of exposure

Inhalation	Inhalation of dust in high concentration may cause irritation of respiratory system.
Eye contact	Contact with eyes may cause irritation.
Skin contact	May cause irritation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Symptoms	No information available.
Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Sensitization	No information available.
Mutagenic effects	In vitro tests have shown mutagenic effects.
Carcinogenic effects	No information available.
Reproductive toxicity	May cause birth defects.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration Hazard	No information available.

#### Other information

No information available.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

No information available.

#### 12.2. Persistence and degradability

No information available.

## 12.3. Bioaccumulative potential

Bioaccumulation	No information available.
Bioconcentration factor (BCF)	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

Waste from residues / unused products	Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
Other information	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

# **SECTION 14: Transport information**

## IMDG/IMO

14.1 UN number	Not regulated		
14.2 UN proper shipping name	Not regulated		
14.3 Transport hazard class(es)	Not regulated		
14.4 Packing group	Not regulated		
14.5 Environmental hazards	None		
14.6 Special precautions for user	None		
14.7 Transport in bulk according to	Not regulated		
Annex II of MARPOL 73/78 and the			
IBC Code			
/			
ADR/RID			
14.1 UN number	Not regulated		

14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	None

## 14.6 Special precautions for user None

ΙΑΤΑ	
14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	None
14.6 Special precautions for user	None

## **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	-
IECSC	-
KECL	-
PICCS	-
AICS	-

#### 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

H341 - Suspected of causing genetic defects if inhaled H361 - Suspected of damaging fertility or the unborn child if inhaled

Classification procedure:	Expert judgment and weight of evidence determination.
Issuing Date:	2014-11-26
Revision Date:	2017-08-01
Disclaimer	

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