

SDS#: 2190 Revision Date 2012-07-27

Version 1

PRODUCT AND COMPANY IDENTIFICATION

Product Name Nocodazole

Product Number 2190

Identified Uses For Research Use Only (RUO). Not intended for use in humans or animals.

Not intended for therapeutic or diagnostic procedures.

Manufacturer/Supplier Cell Signaling Technology, Inc.

3 Trask Lane

Danvers, MA 01923 USA

Phone #: 978-867-2300

HAZARDS IDENTIFICATION

Emergency Overview

Warning



OSHA Hazards

Teratogen, Mutagen

GHS Classification

Germ Cell mutagenicity (Category 2) Reproductive toxicity (Category 2)

Physical State

Solid powder

Potential Health Effects

Acute Toxicity

Eyes May cause eye irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation. May be harmful if inhaled. May cause respiratory tract irritation Inhalation

May be harmful if swallowed. Ingestion

Target organ effects Nerves, Adrenal cortex, Kidneys, Cardiovascular System, Reproductive system, liver,

gastrointestinal tract, cardiovascular system, stomach.

Chronic Effects

Carcinogenic effects No data available.

Mutagenic effects Classified POSSIBLE for human. Mutagenic for mammalian germ and somatic cells

based on in vitro studies.

Reproductive toxicity

Classified reproductive toxin/ female; Classified reproductive toxin/ male (SUSPECTED) Sensitization Prolonged or repeated eposure may cause allergic reactions in sensitive individuals.



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COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients

Chemical Name	CAS No.	EC No.	Concentration
Nocodazole	31430-18-9	250-626-5	>95%

FIRST AID MEASURES

Eye Contact Skin Contact Inhalation Ingestion

Rinse immediately with plenty of water for at least 15 minutes. Get medical attention. Rinse immediately with soap and plenty of water. Get medical attention immediately.

Move to fresh air. Get medical attention.

Call Poison Control immediately. Never give anything by mouth to an unconscious

person. Rinse mouth with water.

Notes to physician Treat symptomatically.

FIRE FIGHTING MEASURES

Flash Point

See Section 9. Physical and Chemical Properties

Suitable Extinguishing Media Special exposure hazards

Use dry chemical, water spray, alcohol resistant foam or carbon dioxide. Hazardous decomposition products formed under fire conditions –toxic gases

can be evolved.

Special protection for fire fighters Wear self-contained breathing apparatus and protective unit

Other information No data available

ACCIDENTAL RELEASE MEASURES

Personal precautions Environmental precautions Avoid contact with skin, eyes, clothing. Avoid creating dusts during clean up. Prevent product form entering drains. Prevent further spillage if safe to do so.

HANDLING AND STORAGE

Safe handling advice Ensure adequate ventilation. Handle in accordance with good industrial hygiene

and safety practice.

Storage conditions

Keep container tightly closed in cool dry place.

Incompatibilities No data available Specific end uses No data available

EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

This product contains no substances with established exposure limit values.

Engineering Measures

Emergency eyewash and safety shower. Mechanical exhaust required.



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Hygiene Measures

Do not eat, drink or smoke when handling product. Wear suitable gloves and eye/face protection. Wash hands thoroughly after handling product. Regular cleaning of equipment, work area and clothing is recommended. Wash contaminated clothing before reuse.

Personal Protective Equipment

Respiratory Protection

In case of insufficient ventilation wear suitable respiratory protective equipment tested and approved under appropriate government standards such as NIOSH, CEN)

Eye Protection:

Face shield and safety glasses tested and approved under appropriate government standards such as NIOSH,

Skin and body protection:

Wear suitable protective clothing, protective shoes or boots.

Hand protection:

Wear compatible chemical resistant gloves. Dispose of gloves in accordance with applicable laws and good laboratory practices.

PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State solid powder **Appearance** yellow to red Odor no data available no data available На Melting point/freezing point no data available Boiling point no data available Evaporation rate no data available Flash point no data available Autoignition temperature no data available Flammability limits in air no data available Explosive properties no data available VOC content no data available Decomposition temperature no data available Solubility no data available

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Conditions/Materials to avoidOxidizing agents, alkalis. Slightly reactive with acids.

Hazardous decomposition products Carbon oxides, nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated.



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Acute Oral Toxicity: No data available.

Routes of Exposure Potential Health Effects

Acute Toxicity

Eyes May cause eye irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation. Inhalation May be harmful if inhaled. May cause respiratory tract irritation

Ingestion May be harmful if swallowed.

Target organ effects No information available

Chronic Effects

Carcinogenic effects No information available

Mutagenic effects Classified as POSSIBLE for human.

Reproductive toxicity
No information available

Teratogenic effects Classified as POSSIBLE for human.

Sensitization No information available

Additional Information: RTECS DD6521000

12. ECOLOGICAL INFORMATION

Ecotoxicity Toxic to aquatic organisms

Persistence and degradability No data available

Bioaccumulation No data available

Mobility No data available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of in accordance with all applicable environmental laws and

regulations.

14. TRANSPORT INFORMATION

IATA Not regulated

DOT Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

OSHA Hazards

Teratogen, Mutagen

GHS Classification



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Germ Cell mutagenicity (Category 2) Reproductive toxicity (Category 1B)



Pictogram:

Signal Word: Warning

Hazard Statements

H341 Suspected of causing genetic defects.
H361d Suspected of damaging the unborn child.

Precautionary Statements

P281 Use personal protective equipment as required.

U.S. Federal Regulations

SARA 302

No chemicals in this material are subject to reporting requirements established by SARA Title III, Section 302

SARA 311/312

Chronic Health Hazard

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals that exceed the reporting levels of the Act and Title 40 of the Code of Federal Regulations, Part 372.

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)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPs) under Section 112 of the Clean Air Act Amendments of 1990.

U.S. State Regulations

Massachusetts Right-to-Know Components:

New Jersey Right-to-Know Components:

Nocodazole

Pennsylvania Right-to-Know Components:

Nocodazole

CAS# 31430-18-9

CAS# 31430-18-9

California Proposition 65

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

WHMIS Hazard Class

D2A Very Toxic Material causing other toxic effects
D2B Toxic Material causing other toxic effects

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.





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16. OTHER INFORMATION

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Revision Note ***Indicates updated section

Disclaimer

The information provided on this material safety data sheet is to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Material Safety Data Sheet