

SDS# : 2200

Revision Date 2012-08-10

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Etoposide Product Number 2200

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

2. HAZARDS IDENTIFICATION

Emergency Overview



Danger

OSHA Hazards

Carcinogen, Target organ effect. Harmful by ingestion

GHS Classification

Acute Toxicity, Oral (Category 4) Carcinogenicity (Category 1B)

Physical State

Solid

Potential Health Effects

Acute Toxicity

Eyes Harmful if absorbed through eyes. May cause eye irritation.

Skin Harmful if absorbed through skin. May cause skin irritation.

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion Harmful if swallowed.

Target organ effects Bone marrow, Blood Bone marrow, Blood

Chronic Effects

Carcinogenic effects This product is or contains a component that is reported to be probably carcinogenic

based on IARC, OSHA, ACGIH, NTP, or EPA classification.

Mutagenic effects
Reproductive toxicity
Sensitization
No data available
No data available

COMPOSITION/INFORMATION ON INGREDIENTS



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Hazardous Ingredients

Chemical Name	CAS No.	EC No.	Concentration
Etoposide	33419-42-0	251-509-1	>98%

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 **Suitable Extinguishing Media** Special exposure hazards

Not flammable. See Section 9. Physical and Chemical Properties 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 Specific end uses No data available 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.

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



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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State crystalline solid, granular or powder

Appearance white

Odor no data available no data available

Melting point/freezing point 259-273'C

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 no data available Explosive properties VOC content no data available Decomposition temperature no data available Soluble in DMSO Solubility

10. STABILITY AND REACTIVITY

Stability S
Conditions/Materials to avoid F
Hazardous decomposition products n

Stable under normal conditions. Protect from light and heat.

no data avialable

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

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

Acute Oral Toxicity (LD50) 1,784 mg/kg (rat)

Routes of Exposure
Potential Health Effects
Acute Toxicity
Acute Toxicity

Eyes Harmful if absorbed through eyes. May cause eye irritation.





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

Ingestion Harmful if swallowed.

Target organ effects Bone marrow, Blood Bone marrow, Blood

Chronic Effects

Carcinogenic effects Possible Human Carcinogen.

This product is or contains a component that is reported to be probably carcinogenic

based on IARC, OSHA, ACGIH, NTP, orEPA classification. IARC 1- Group 1- Carcinogenic to humans (Etoposide)

Mutagenic effects No data available Reproductive toxicity Sensitization No data available

Additional Information: RTECS KC0190000

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 for transport

DOT Not regulated for transport

IMDG Not regulated for transport

15. REGULATORY INFORMATION

OSHA Hazards

Carcinogen, Target organ effect. Harmful by ingestion

GHS Classification

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Signal Word: Danger

Pictogram:



Hazard Statements

H302 Harmful if swallowed. H350 May cause cancer.

Precautionary Statements

P201 Obtain special instructions before use.

P308 + P313 IF exposed or concerned: Get medical advice.

U.S. Federal Regulations

SARA 302

No components are subject to reporting requirements established by SARA Title III, Section 302.

SARA 311/312

Acute Health Hazard/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: None

New Jersey Right-to-Know Components: Etoposide CAS# 33419-42-0 Pennsylvania Right-to-Know Components: Etoposide CAS# 33419-42-0

California Proposition 65

Warning! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm:

Etoposide

CAS# 33419-42-0

WHMIS Hazard Class

D2A Very Toxic Material Causing Other Toxic Effects

D2B Toxic Material Causing Other Toxic Effects

Mutagen



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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.

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