

Revision Date 2012-10-13

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Lapatinib Product Number 12121

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 #: 1-978-867-2300 **Emergency Tel#** 1-978-578-6737

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

No known OSHA hazards.

GHS Classification

Not a dangerous substance according to GHS.

Physical State

Solid

Potential Health Effects

Acute Toxicity

Eyes Risk of serious eye damage.

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

Ingestion Harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

No ingredients are hazardous according to OSHA, GHS criteria.

Chemical Name	CAS No.	Concentration
N-[3-chloro-4-[93-fluorophenyl0methoxy]phenyl]-6-[5-[92-methylsulfonylethylamino0methyl]furan-2-yl]quinazolin-4-amine ditosylate	388082-78-8	-

Synonym: Lapatinib, Ditosylate, Tykerb, GW-572016, Tyverb

Formula: $C_{29}H_{26}CIFN_4O_4S-2C_7H_8O_3S$

Molecular Weight: 383.82 g/mol

4. FIRST AID MEASURES

Eye ContactRinse immediately with plenty of water for at least 15 minutes. Get medical attention. **Skin Contact**Rinse immediately with soap and plenty of water. Get medical attention immediately.

Inhalation Move to fresh air. Get medical attention.

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth with water.

Notes to physician Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash Point





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Suitable Extinguishing Media Special exposure hazards Special protection for fire fighters

Other information

Use dry chemical, water spray, alcohol resistant foam or carbon dioxide.

Hazardous decomposition products formed under fire conditions –toxic gases can be evolved.

Wear self-contained breathing apparatus and protective unit

No data available

6. 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 Storage conditions Incompatibilities Specific end uses Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

Keep container tightly closed in cool dry place.

No data available No data available

8. 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

Respiratory Protection

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

Eve Protection:

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 solid
Color yellow
Odor none

рΗ no data available Melting point range 241-252'C no data available Boiling point 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 very poorly soluble in water, maximum solubility in plain water is estimated to be about 1-10 µM;

buffers, serum, or other additives may increase or decrease the aqueous solubility

Organic Solvents: Soluble in DMSO at 200mg/mL; very poorly soluble in ethanol





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10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Conditions/Materials to avoid No data available Hazardous decomposition products No data available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

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

Routes of Exposure Potential Health Effects

Acute Toxicity

Eyes No information available Skin No information available Inhalation No information available Ingestion No information available

Target organ effects No information available

Chronic Effects

Carcinogenic effects
Mutagenic effects
Reproductive toxicity
Teratogenic effects
Sensitization
No information available
No information available
No information available
No information available

RTECS#: -

12. ECOLOGICAL INFORMATION

 Ecotoxicity
 No data available

 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

DOT Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

OSHA Hazards

No known OSHA hazards

GHS Classification

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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

No SARA hazards

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

California Proposition 65

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

WHMIS Hazard Class

Not controlled.

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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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