

Material Safety Data Sheet (MSDS) for Hoechst 33342

I. Product and Company Identification:

Product name: Hoechst 33342
Product Catalog: 4082
Product Use: FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.
Manufacturer Supplier: Cell Signaling Technology
 3 Trask Lane
 Danvers, MA 01923 USA
 1-978-867-2300 TEL
 1-978-867-2400 FAX
 1-978-578-6737 Emergency TEL

II. Hazard Identification:

FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

Physical State: Solid (solid powder)

Emergency Overview: Warning!

HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED.

CAUSES EYE IRRITATION.

MAY CAUSE RESPIRATORY TACT AND SKIN IRRITATION.

Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Routes of Entry: Dermal contact. Eye contact. Inhalation. Ingestion.

OSHA/HCS Status:

This material is considered hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

EU Classification: According to the Regulation (EC) No1272/2008:

Acute toxicity, Oral (Category 4)

Skin corrosion (category 1A)

Specific target organ toxicity – single exposure (Category 3)

According to EU Directive 67/548/EEC as amended:

Causes severe burns. Harmful if swallowed.

Signal Word: Danger

Hazard Statement(s):

H302: Harmful if swallowed

H314: Causes severe skin burns and eye damage

H335: May cause respiratory irritation

Precautionary Statements:

P261: Avoid breathing dust

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

P310: Immediately contact a poison center or seek medical attention.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Hazard Symbol: (C) Corrosive

R-Phrase(s)

R22: Harmful if swallowed

R35: Causes severe burns

R37: Irritating to respiratory system

S-Phrase(s)

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S36/37/39: Wear suitable protective clothing/gloves and eye/face protection

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

III. Composition/Information on Ingredients:

Synonyms: H0E 33342

bisbenzimidazole H 33342 trihydrochloride

bisBenzimidazole

2'-(4-Ethoxyphenyl)-5-(4-methyl-1-piperazinyl)-2'5'-bi-1H-benzimidazoletrihydrochloride

Formula: C₂₇H₂₈N₆O₃·3HCl·xH₂O

Ingredient Name:	CAS#	EC-No.	Concentration
Hoechst 33342	23491-52-3	245-691-1	>98%
Acetonitrile	75-05-8	200-835-2	≥2 %

IV. First Aid Measures:

General Instructions: Show this safety data sheet to the doctor in attendance.

Inhalation: Remove to fresh air. If breathing is difficult, get medical attention.

Ingestion: Do NOT induce vomiting. If person is conscious, wash out mouth with water. Get medical attention.

Skin Exposure: Wash skin with soap and water. If irritation develops or persists, get medical attention.

Eye exposure: Immediately flush eyes water for at least 15 minutes. Get medical attention.

V. Fire Fighting Measures:

Fire extinguishing media: No restriction. water spray, dry chemical, alcohol foam, or carbon dioxide.

Firefighting: Wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.

VI. Accidental Release Measures:

Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation.

Evacuate personnel to safe areas. Avoid breathing dust. Sweep up and keep in suitable closed containers for disposal.

Do not let product enter drains.

VII. Handling And Storage:

Handling: Avoid contact with eyes, skin, and clothing, wash thoroughly after handling.

Storage: Store at 2°C – 8°C in tightly closed container. Light Sensitive.

VIII. Exposure Controls/Personal:

Ventilation System: A system of local and/or general exhaust is recommended.

Skin Protection: Wear compatible chemical resistant gloves and protective clothing.

Eye protection: Wear protective safety glasses or chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

IX. Physical And Chemical Properties:

Form:	powder
Color:	yellow
pH:	1.7 at 20°C
Boiling Point:	data not available
Melting Point:	data not available
Flash Point:	data not available
Autoignition temp.	data not available
Solubility (water):	data not available

X. Stability and Reactivity:

Stability: Stable under recommended storage conditions. Sensitive to light.

Materials to avoid: Strong oxidizing agents.

Hazardous Decomposition: May lead to carbon oxides, nitrogen oxides.

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XI. Toxicological Information:

To the best of our knowledge, the chemical, physical, and toxicological properties of this buffer solution have not been thoroughly investigated.

Acute Toxicity: No data available.

Skining corrosion/irritation: No data available.

Respiratory or skin sensitization: No data available.

Germ Cell mutagenicity:

Genotoxicity In vitro tests showed mutagenic effects:

Mouse, Fibroblast:	DNA damage
Human, HeLa cell:	DNA inhibition
Hamster, Lungs:	DNA damage
Hamster, Lungs:	DNA inhibition
Hamster, Ovary:	Micronucleus test

Carcinogenicity: No data available.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: No data available.

Specific target organ toxicity – single exposure: Inhalation: May cause respiratory irritation.

Specific target organ toxicity – repeated exposure: No data available.

XII. Ecological Information:

Toxicity: No data available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in Soil: No data available.

PBT and vPvB assessment: No data available.

Other adverse effects: No data available.

XIII. Disposal Considerations:

Dispose of in accordance with federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

XIV. Transport Information:

D.O.T. Not dangerous goods.

ADR/RID Not dangerous goods.

IMDG Not dangerous goods.

IATA: Not dangerous goods.

XV. Regulatory Information:

United States

HCS Classification: Toxic material. Irritating material.

U.S. Federal Regulations:

TSCA 8(b) Inventory: This product is being sent to you as a Research and Development product as defined by the Toxic Substances Act (TSCA) of 1976. Due to TSCA's R&D exemption, this product is not listed on the U.S. EPA's Toxic Substances Control Act (TSCA's) inventory. As a TSCA-exempt R&D substance, this product must be used by or directly under the supervision of a technically qualified individual(s) as defined by TSCA. This product may not be used for commercial purposes or in formulations used for commercial purposes.

SARA 302/304/311/312 extremely hazardous substances: No products were found

SARA 302/304 emergency planning and notification: No products were found

SARA 302/304/311/312 hazardous chemicals: No products were found

SARA 322/312 MSDS distribution –chemical inventory-hazard identification: No products were found

Clean Water Act (CWA) 307: No products were found

Clean Water Act(CWA) 311: No products were found

Clean Air Act (CAA) 112 accidental release prevention: No products were found

Clean Air Act (CAA) 112 regulated toxic substances: No products were found

State regulations: No products were found.

Canada

WHMIS: Class D-2B: Material causing other toxic effects (Toxic).

Mexico

Classification: Health: 2 Flammability: 0 Reactivity: 0

EU regulations

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

XVI. Other Information:

This product is not intended for use in humans. To the best of our knowledge, this document is accurate. It is intended to serve as a guide for safe use of this product in a laboratory setting by experienced personnel. The burden of safe use of this material rests entirely with the user. The above information is believed to be accurate but is not necessarily all-inclusive and shall be used only as a guide. Cell Signaling Technology, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product.