



## Material Safety Data Sheet

Product: Stemolecule™ CHIR99021

Catalog Number: 04-0004

### 1. Product and Company Information

Product Name	Stemolecule™ CHIR99021
Catalog Number	04-0004
Synonyms	6-[[2-[[4-(2,4-dichlorophenyl)-5-(5-methyl-1H-imidazol-2-yl)-2-pyrimidinyl]amino]ethyl]amino]-3-pyridinecarbonitrile
Product Use	GSK-3β inhibitor
Manufacturer/Supplier	Stemgent 10575 Roselle Street San Diego, CA 92121 USA
In Case of Emergency Call	1.617.245.0000
Date Effective	July 21, 2008
Prepared by	Safety

### 2. Composition/Information on Ingredients

Component	CAS No.
CHIR99021	252917-06-9

### 3. Hazards Identification

Potential Health Effects	
• Eye	May cause eye irritation
• Skin	May cause skin irritation; may be harmful if absorbed through the skin.
• Inhalation	Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
• Ingestion	May be harmful if swallowed
Chronic Effects/Carcinogenicity	Not available
OSHA Regulatory Status	Not available

### 4. First Aid Measures

Eyes	Check for and remove contact lenses. In case of contact, immediately flush thoroughly with water for at least 15 minutes. Call a physician.
Skin	In case of contact, immediately flush skin with copious amounts of water. Remove contaminated clothing and shoes and wash before use. Contact a physician.
Ingestion	If swallowed, wash mouth out with water provided person is conscious. Do not induce vomiting. Loosen tight clothing. Contact a physician.
Inhalation	If inhaled, remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, call a physician.
Puncture Wounds	Wash thoroughly with soap and water. Allow wound to bleed freely. Contact a physician.
Note to Physician	Not available



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### 5. Fire Fighting Measures

Flash Point/Method	Not available
Autoignition Temperature	Not available
Conditions of Flammability	Not available
Extinguishing Media	Small fires: dry chemical powder. Large fires: water spray, fog or foam. Do not use water jet.
Fire Fighting Procedures	Wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

### 6. Accidental Release Measures

Leak and Spill Procedure	Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust. For cleanup, sweep carefully into a bag and hold for proper waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.
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### 7. Handling and Storage

Handling	User exposure: avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
Storage	Keep tightly closed. Store at -20°C.

### 8. Exposure Controls/Personal Protection

Engineering Controls	Safety shower and eye bath. Mechanical exhaust required.
Personal Protective Equipment	
<ul style="list-style-type: none"><li>Respiratory Protection</li></ul>	Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.
<ul style="list-style-type: none"><li>Eye Protection</li></ul>	Chemical safety goggles.
<ul style="list-style-type: none"><li>Skin Protection</li></ul>	Protective gloves.
General Hygiene Considerations	Wash thoroughly after handling.

### 9. Physical/Chemical Properties

Appearance	Physical state: solid
Color	Off-white
Molecular weight	465.34
Solubility	DMSO
Flash point	Not available



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### 10. Stability/Reactivity

Chemical Stability	This product is stable.
Conditions to Avoid	Not available
Material to Avoid	Not available
Hazardous Decomposition/By-Products	Not available

### 11. Toxicological Information

Effects of Short-Term Exposure	Not available
Effects of Long-Term Exposure	Not available
Irritancy of Product	Not available
Sensitization to Product	Not available
Carcinogenicity	Not available
Reproductive Toxicity	Not available
Teratogenicity and Embryotoxicity	Not available
Mutagenicity	Not available
Name of Toxicologically Synergistic Products	Not available
LD50 (specify species and route)	Not available
LD50 (specify species)	Not available

### 12. Ecological Information

Ecotoxicity	Not available
Toxicity of the Products of Biodegradation	Not available

### 13. Disposal Considerations

Waste Disposal Method	Waste must be disposed of in accordance with federal, state, and local environmental control regulations.
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### 14. Transport Information

Proper Shipping Name	None
Hazard Class	This product is considered non-hazardous for transport

### 15. Regulatory Information

International Inventories	
U.S. Federal Regulations	
<ul style="list-style-type: none"><li>SARA 313</li></ul>	Not SARA listed
<ul style="list-style-type: none"><li>Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see CFR 61)</li></ul>	No products were found.
U.S. State Regulations	
<ul style="list-style-type: none"><li>California Proposition 65</li></ul>	No products were found.
WHMIS Hazard Class	Not controlled under WHMIS (Canada)



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### 16. Other Information

Notice	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Stemgent shall not be held liable for any damage resulting from handling or from contact with the product. See Stemgent website for terms and conditions of sale.
Disclaimer	For research use only. Not for use in diagnostic or therapeutic applications.

**END OF SAFETY DATA SHEET**