

Safety Data Sheet

SECTION 1. IDENTIFICATION:

Trade name: CHIR99021, Free Base

Product Number: C-6556

Manufacturer/Supplier:

LC Laboratories

165 New Boston Street

Woburn, MA 01801 USA

1-781-937-0777 Fax: 1-781-938-5420

SECTION 2. HAZARD(S) IDENTIFICATION:

Hazard Description: pharmaceutically active substance that has not been fully tested

Harmful if swallowed

May be harmful if inhaled or absorbed through the skin

Irritating to the skin and eyes

May impair fertility or harm the unborn child

Exposure may cause irritation of the respiratory tract and allergic respiratory and skin reaction

Signal Word: Danger

GHS Hazard Statements:

H302 - Harmful if swallowed

H313 - May be harmful in contact with skin

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H333 - May be harmful if inhaled

H335 - May cause respiratory irritation

H361 - Suspected of damaging fertility or the unborn child

GHS Precautionary Statements:

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P263 - Avoid contact during pregnancy/while nursing

P264 - Wash skin thoroughly after handling

P280 - Wear protective gloves/eye protection/face protection

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

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

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P337 + P313 - If eye irritation persists: Get medical advice/attention



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS:

Chemical Name: 6-[[2-[[4-(2,4-Dichlorophenyl)-5-(5-methyl-1*H*-imidazol-2-yl)-2-pyrimidinyl]amino]ethyl]pyridinecarbonitrile

Synonyms: CHIR 911, CT99021, GSK-3 Inhibitor XVI

Hazardous Ingredient: CHIR99021, Free Base

CAS Registry Number: 252917-06-9

Molecular Weight: 465.34

Molecular Formula: C₂₂H₁₈Cl₂N₈

SECTION 4. FIRST-AID MEASURES:

After Inhalation: If inhaled, remove to fresh air; if breathing is difficult, give oxygen; if breathing stops, give

After skin contact: flush with copious amounts of water; remove contaminated clothing and shoes; call a physician

After eye contact: check for and remove contact lenses; flush with copious amounts of water; assure adequate eyelids with fingers; call a physician

After swallowing: if swallowed, wash out mouth with copious amounts of water; call a physician

SECTION 5. FIRE-FIGHTING MEASURES:

Suitable extinguishing agents: water spray, carbon dioxide, dry chemical powder or foam

Protective equipment: wear self-contained breathing apparatus and protective clothing to prevent contact with

Unusual fire hazard: may emit toxic fumes under fire conditions such as carbon monoxide, etc.

SECTION 6. ACCIDENTAL RELEASE MEASURES:

Person-related safety precautions: cordon off area of spill; wear self-contained breathing apparatus, protective gloves

Measures for cleaning/collecting: absorb solutions with finely- powdered liquid-binding material (diatomite), decontaminate surfaces and equipment by scrubbing with alcohol; dispose of contaminated material according

SECTION 7. HANDLING AND STORAGE:

Information for safe handling: avoid contact with skin, eyes and clothing; material may be an irritant

Storage: store solid and solutions at -20 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Personal protective equipment as follows:

Breathing equipment: NIOSH/MSHA-approved respirator

Protection of hands: chemical-resistant rubber gloves

Eye protection: chemical safety goggles

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:

Form: crystalline solid; granular or powder

Color: off-white

Odor: none

Melting point/Melting range: 125-148 °C

Danger of explosion: none

Solubility in / Miscibility with water: very poorly soluble in water; maximum solubility in plain water is estimated

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

Solvent content:

Organic solvents: soluble in DMSO at 25 mg/mL with warming; very poorly soluble in ethanol

SECTION 10. STABILITY AND REACTIVITY:

Stability: avoid acids and bases

Thermal decomposition / conditions to be avoided: protect from light and heat

Dangerous products of decomposition: thermal decomposition may produce toxic gases such as carbon monoxide and nitrogen oxides

SECTION 11. TOXICOLOGICAL INFORMATION:

RTECS #: not available

Acute toxicity: not known; substance not fully tested

Primary irritant effect:

On the skin: causes skin irritation; may be harmful if absorbed through the skin

On the eye: causes serious eye irritation

Inhalation: may cause irritation of mucous membranes and upper respiratory tract; may be harmful if inhaled

Ingestion: harmful if swallowed

SECTION 12. ECOLOGICAL INFORMATION:

General notes: no data available

Treat as potentially toxic if released into the environment

SECTION 13. DISPOSAL CONSIDERATIONS:

Dispose of in accordance with prevailing country, federal, state and local regulations

SECTION 14. TRANSPORT INFORMATION:

DOT:

Proper shipping name: none

Non-Hazardous for transport: this substance is considered to be non-hazardous for transport

IATA class:

Proper shipping name: none

Non-Hazardous for transport: this substance is considered to be non-hazardous for transport

SECTION 15. REGULATORY INFORMATION:

Code letter and hazard designation of product:

Hazard-determining components of labeling:

EU Risk And Safety phrases:

S22: Do not breathe dust

S24/25: Avoid contact with skin and eyes

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

S28: After contact with skin, wash immediately with plenty of soap-suds

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

R22: Harmful if swallowed

R38: Irritating to skin

R41: Risk of serious damage to eyes

R62: Possible risk of impaired fertility

R63: Possible risk of harm to the unborn child

SECTION 16. OTHER INFORMATION:

The above information is believed to be correct based on our present knowledge but does not purport to be correct by trained personnel. The burden of safe use of this material rests entirely with the user. LC Laboratories disc

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