

# Safety Data Sheet

## SAFETY DATA SHEET - LC LABORATORIES REVISION DATE: JULY 1, 2019

### SECTION 1. IDENTIFICATION:

Trade name: Celecoxib  
Product Number: [C-1502](#)  
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  
Substance Class Identifier: Tumorigen; Drug; Human Data  
May be harmful if swallowed, inhaled, or by skin absorption  
Ingestion may result in gastrointestinal effects (nausea, abdominal pain, dyspepsia (heartburn), bleeding, ulceration, and perforation), peripheral edema (swelling of face/extremities), hives, urticaria (redness and swelling of the skin), rash, chills, yellowing of skin and eyes, headache, dizziness, vomiting, diarrhea, insomnia, hypertension (increase in blood pressure), respiratory infection, chest pain, myocardial infarction (heart attack), stroke, congestive heart failure, liver effects, kidney effects, changes in blood cell levels, Stevens Johnson Syndrome (life-threatening skin condition), and prolonged bleeding time  
Serious allergic reactions, including anaphylaxis, have been reported; individuals with known hypersensitivity or allergic reaction to other NSAID family members or sulfonamides should avoid exposure  
May damage fertility or the unborn child; pregnant and nursing women should avoid exposure  
Toxic to aquatic life  
Exposure may cause irritation of the skin, eyes, and respiratory tract  
Signal Word: Danger

#### GHS Hazard Statements:

H302+312+332 - Harmful if swallowed, in contact with skin or if inhaled

#### GHS Precautionary Statements:

P2562 - Do not get in eyes, on skin or on clothing

WARNING: For Laboratory Research Use Only



---

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS:

Chemical Name: 4-[5-(4-Methylphenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]-benzenesulfonamide

Synonyms: Celebrex, Celebra, Celecox, Eurocox, Medicoxib, Onsenal, Solexa, SC-58635, Xilebao, YM-177

Hazardous Ingredient: Celecoxib

CAS Registry Number: 169590-42-5

Molecular Weight: 381.37

Molecular Formula: C<sub>17</sub>H<sub>14</sub>F<sub>3</sub>N<sub>3</sub>O<sub>2</sub>S

---

#### **SECTION 4. FIRST-AID MEASURES:**

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

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 flushing by separating the 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 skin and eyes

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 clothing and heavy rubber gloves

Measures for cleaning/collecting: absorb solutions with finely-powdered liquid-binding material (diatomite, universal binders); decontaminate surfaces and equipment by scrubbing with alcohol; dispose of contaminated material according to Section 13

---

#### **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: handle with Nitrile rubber gloves with minimum thickness of 0.11 mm (4.3 mil). This recommendation should not be interpreted as offering an approval for any specific use conditions. Please review this recommendation with a safety officer to evaluate if it is appropriate for the anticipated use.

Eye protection: chemical safety goggles

---

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:**

Form: crystalline solid; granular or powder

Color: white

Odor: none

Melting point/Melting range: 160-162 °C

Danger of explosion: none

Solubility in / Miscibility with water: very poorly soluble in water; maximum solubility in plain water is estimated to be about 10-50 µM; buffers, serum, or other additives may increase or decrease the aqueous solubility

Solvent content: none

Organic solvents: soluble in DMSO at 200 mg/mL; soluble in ethanol at 100 mg/mL

---

## **SECTION 10. STABILITY AND REACTIVITY:**

Stability: stable if stored as directed; avoid strong oxidizing agents

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, carbon dioxide, and nitrogen oxides

---

## **SECTION 11. TOXICOLOGICAL INFORMATION:**

RTECS #: DB2944937

Acute toxicity: subcutaneous toxicity (TDLo): 1 mg/kg (mouse), 263.2-6370 µg/kg (rat); oral toxicity (TDLo): 5-100 mg/kg (mouse); 0.1-100 mg/kg (rat), 5.71 mg/kg (human); intraperitoneal toxicity (TDLo): 20-80 mg/kg (mouse, 1-38 mg/kg (rat)

Primary irritant effect:

On the skin: may be an irritant; may be harmful if absorbed through the skin

On the eye: may be an irritant

Inhalation: may cause respiratory tract irritation; may be harmful if inhaled

Ingestion: may be harmful if swallowed

---

## **SECTION 12. ECOLOGICAL INFORMATION:**

General notes: toxic to aquatic life

Strictly avoid contamination of the environment

---

## **SECTION 13. DISPOSAL CONSIDERATIONS:**

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

---

#### **SECTION 14. TRANSPORT INFORMATION:**

UN number: 3077

DOT: Environmentally hazardous substance, solid, n.o.s. (Celecoxib), Class: 9,  
Packing group: III

IMDG: Environmentally hazardous substance, solid, n.o.s. (Celecoxib), Class: 9,  
Packing group: III

IATA: Environmentally hazardous substance, solid, n.o.s. (Celecoxib), Class: 9,  
Packing group: IIII

---

#### **SECTION 15. REGULATORY INFORMATION:**

Code letter and hazard designation of product:

Xn: Harmful

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

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)

R52: Harmful to aquatic organisms

R60: May impair fertility

R61: May cause 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 complete. For research use only by trained personnel. The burden of safe use of this material rests entirely with the user. LC Laboratories disclaims all liability

Reviewed: July 1, 2019