

Section 1. Product and Company Identification

**Product Name** Tadalafil  
**CAS Number** 171596-29-5

**Parchem - fine & specialty chemicals**  
**415 Huguenot Street**  
**New Rochelle, NY 10801**  
☎ (914) 654-6800 ☎ (914) 654-6899  
🌐 [parchem.com](http://parchem.com) ✉ [info@parchem.com](mailto:info@parchem.com)

EMERGENCY RESPONSE NUMBER  
CHEMTEL  
Toll Free US & Canada: 1 (800) 255-3924  
All other Origins: 1 (813) 248-0585  
Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

**Risk Phrases**

R22: Harmful if swallowed  
R36/37/38: Irritating eyes, respiratory system and skin

**Safety Phrases**

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S36: Wear suitable protective clothing

**Classification (Regulation (EC) No 1272/2008)**

Acute toxicity, category 4 - H332: Harmful if inhaled  
Acute toxicity, category 4 - H302: Harmful if swallowed  
Specific target organ toxicity - Single Exposure, Category 3 - H335: May cause respiratory irritation  
Skin irritation, Category 2 - H315: Causes skin irritation

**GHS Label Elements**

**Pictograms:**



**Signal word:** WARNING

**Hazard and precautionary statements**

**Hazard Statements**

H332: Harmful if inhaled  
H302: Harmful if swallowed  
H335: May cause respiratory irritation  
H315: Causes skin irritation



### Precautionary Statements

P261: Avoid breathing dust/fume/gas/mist/vapors/spray

P305 + P351 + P338: If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P233: Keep container tightly closed

### Section 3. Composition / Information on Ingredients

<b>Common Name</b>	Tadalafil
<b>Synonym(s)</b>	Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)2,3,6,7,12,12ahexahydro-2-methyl-, (6R,12aR)-IC351
<b>Formula</b>	C <sub>22</sub> H <sub>19</sub> N <sub>3</sub> O <sub>4</sub>
<b>CAS Number</b>	171596-29-5

### Section 4. First Aid Measures

**Eye contact:** Remove any contact lenses, locate eye-wash station, and flush eyes immediately with large amounts of water. Separate eyelids with fingers to ensure adequate flushing. Promptly call a physician.

**Skin contact:** Rinse skin thoroughly with large amounts of water. Remove contaminated clothing and shoes and call a physician.

**Inhalation:** Immediately relocate self or casualty to fresh air. If breathing is difficult, give cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation.

**Ingestion:** Wash out mouth with water; Do NOT induce vomiting; call a physician.

**Most important symptoms and effects, both acute and delayed:** The most important known symptoms and effects are described in the labelling (see section 2).

**Indication of any immediate medical attention and special treatment needed:** Treat symptomatically.

### Section 5. Firefighting Measures

#### Extinguishing media

**Suitable extinguishing media:** Use water spray, dry chemical, foam, and carbon dioxide fire extinguisher.

**Special hazards arising from the substance or mixture:** During combustion, may emit irritant fumes.

**Advice for firefighters:** Wear self-contained breathing apparatus and protective clothing.

### Section 6. Accidental Release Measures

#### Personal precautions, protective equipment and emergency procedures

Use full personal protective equipment. Avoid breathing vapors, mist, dust or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Refer to protective measures listed in sections 8.

**Environmental precautions:** Try to prevent further leakage or spillage. Keep the product away from drains or water courses.

**Methods and materials for containment and cleaning up:** 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

**Precautions for safe handling:** Avoid inhalation, contact with eyes and skin. Avoid dust and aerosol formation. Use only in areas with appropriate exhaust ventilation.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly sealed in cool, well-ventilated area. Keep away from direct sunlight and sources of ignition. Recommended storage temperature: Store at -20°C.

#### Section 8. Exposure Controls / Personal Protection

##### Control parameters

**Components with workplace control parameters:** This product contains no substances with occupational exposure limit values.

##### Exposure controls

**Engineering controls:** Ensure adequate ventilation. Provide accessible safety shower and eye wash station.

##### Personal protective equipment

**Eye protection:** Safety goggles with side-shields.

**Hand protection:** Protective gloves.

**Skin and body protection:** Impervious clothing.

**Respiratory protection:** Suitable respirator.

**Environmental exposure controls:** Keep the product away from drains, water courses or the soil. Clean spillages in a safe way as soon as possible.

#### Section 9. Physical and Chemical Properties

**Appearance:** White powder

**Solubility:** Freely soluble in dimethyl formamide

**Odor:** Odorless

**Chemical Name:** (6K-trans)-6-(1,3-Benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-pirazino [1', 2':1,6] pyrido [3,4-b] indole-1,4-dione.

**Molecular weight:** 389.40

#### Section 10. Stability and Reactivity

**Reactivity:** No data available.

**Chemical stability:** Stable under recommended storage conditions.

**Possibility of hazardous reactions:** No data available.

**Conditions to avoid:** No data available.

**Incompatible materials:** Strong acids/alkalis, strong oxidising/reducing agents.

**Hazardous decomposition products:** Under fire conditions, may decompose and emit toxic fumes. Other decomposition products - no data available.

#### Section 11. Toxicological Information

##### Information on toxicological effects

**Acute toxicity:** Classified based on available data. For more details, see section 2.

**Skin corrosion/irritation:** Classified based on available data. For more details, see section 2.

**Serious eye damage/irritation:** Classified based on available data. For more details, see section 2.

**Respiratory or skin sensitization:** Classified based on available data. For more details, see section 2.

**Germ cell mutagenicity:** Classified based on available data. For more details, see section 2.

##### Carcinogenicity

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

**ACGIH:** No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by ACGIH.

**NTP:** No component of this product present at a level equal to or greater than 0.1% is identified as a anticipated or confirmed carcinogen by NTP.

**OSHA:** No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by OSHA.

**Reproductive toxicity:** Classified based on available data. For more details, see section 2.

**Specific target organ toxicity - single exposure:** Classified based on available data. For more details, see section 2.

**Specific target organ toxicity - repeated exposure:** Classified based on available data. For more details, see section 2.

**Aspiration hazard:** Classified based on available data. For more details, see section 2.

#### Section 12. Ecological Information

**Toxicity:** No data available.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

**Mobility in soil:** No data available.



**Results of PBT and vPvB assessment:** PBT/vPvB assessment unavailable as chemical safety assessment not required or not conducted.

**Other adverse effects:** No data available.

Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

**DOT (US):** This substance is considered to be non-hazardous for transport.

**IMDG:** This substance is considered to be non-hazardous for transport.

**IATA:** This substance is considered to be non-hazardous for transport.

Section 15. Regulatory Information

**SARA 302 components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 components:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 hazards:** No SARA Hazards.

**Massachusetts Right to Know components:** No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right to Know components:** No components are subject to the Pennsylvania Right to Know Act.

**New Jersey Right to Know components:** No components are subject to the New Jersey Right to Know Act.

**California Prop. 65 components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Other Regulatory information**

**DSCL (EEC):** Unlisted

**HMIS U.S.A.:** Unlisted



Section 16. Other Information

**Disclaimer:** 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.

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