Material Safety Data Sheet

Section 1 - Product and Company Information

Product Name: FK506
Cat. Code: ttrl-fk5

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Company identification: Cayla-InvivoGen, 5 rue Jean Rodier
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Emergency number: ORFILA (INRS): +33 (0)1 45 42 59 59

Disclaimer: All InvivoGen products are supplied for research and laboratory use only. Not for drug, household or other uses.

Section 2 – Hazards Identification

Emergency Overview:
OSHA Hazards
Target Organ Effect, Toxic by ingestion

Target Organ Immune system

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] and GHS
Acute toxicity, Oral (Category 3)

Classification according to EU Directives 67/548/EEC or 1999/45/EC
Toxic if swallowed.

Labeling according Regulation (EC) No 1272/2008 [CLP] and GHS

Pictogram

Signal word Danger

Hazard statement
H301 Toxic if swallowed.
Precautionary statement(s)
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

HMIS Classification: Health Hazard 2, Chronic health hazard *, Flammability Hazard 0, Reactivity Hazard 0
NFPA Rating Health Hazard 2, Fire 0, Reactivity Hazard 0

Hazard symbol(s)
R-phrase(s)
R25 Toxic if swallowed.
S-phrase(s)
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Section 3 – Composition/Information on Ingredient

Synonyms: FK506, Tacrolimus
CAS number: 109581-93-3

Section 4 – First Aid Measures

General advice: Consult a physician. Show this material safety data sheet to the doctor in attendance.
After skin contact: Immediately wash skin with soap and plenty of water. Consult a physician.
After swallowing: Never give anything by mouth to an unconscious person. Rinse mouth with water provided person is conscious. Consult a physician.
After inhalation: Remove to fresh air. If not breathing give artificial respiration. Consult a physician.
After eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician.

Section 5 – Fire Fighting Measures

Suitable extinguishing media: Water spray, carbon dioxide, dry chemical powder or appropriate foam.
Specific hazards arising from the chemical: No data available
Special Firefighting Procedures: Wear self-contained breathing apparatus for fire fighting if necessary.

Section 6 – Accidental Release Measures

Personal precautions: Wear protective equipment. Keep unprotected persons away. Avoid dust formation.
Method for Cleaning Up: Sweep up and place in closed containers for disposal. Dispose contaminated material as waste according to section 13. Ventilate area and wash spill site after material clean-up is complete.

Section 7 – Handling and Storage

Precautions for safe handling: Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Storage: Store at -20°C.

Section 8 – Exposure Controls / PPE

Personal protective equipment
Respiratory protection
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. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand protection
For prolonged or repeated contact use protective gloves.
Eye protection
Safety glasses
Hygiene measures
General industrial hygiene practice.
Material Safety Data Sheet

Section 9 – Physical / Chemical Properties

Appearance
Physical state: Solid
Color: White

Safety Data
Odor: No data available
Odor threshold: No data available
pH: No data available
Melting point/freezing point: No data available
Initial boiling point and boiling range: No data available
Flash point: No data available
Evaporation rate: No data available
Flammability: No data available
Upper/lower flammability or explosive limits: No data available
Vapor pressure: No data available
Relative density: No data available
Solubility: No data available
Partition coefficient: n-octanol/water: No data available
Autoignition temperature: No data available
Decomposition temperature: No data available
Viscosity: No data available

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: No data available
Hazardous decomposition products: No data available

Section 11 – Toxicological Information

Acute toxicity:
Oral LD50: 134 mg/kg (rat). Ref: NIIRDN Drugs in Japan (Ethical Drugs). (Yakugyo Jiho Co., Ltd., Tokyo, Japan) Volume (issue)/page/year: -,720,1995
Inhalation LC50: No data available
Dermal LD50: No data available
Other information on acute toxicity: No data available
Skin corrosion/irritation: No data available
Serious eye damage/irritation: No data available
Respiratory or skin sensitization: No data available
Germ cell mutagenicity: No data available
Carcinogenicity: No data available
Reproductive toxicity: No data available
Additional information: No data available

Section 12 – Ecological Information

Ecotoxicity: No data available
Persistence and degradability: No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available
Section 13 – Disposal Considerations

**Product:** Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Must not be disposed of together with household garbage.

**Contaminated Packaging:** Dispose of as unused product.

Section 14 – Transport Information

**ADR/RID:** Proper Shipping Name: Toxic solids, organic, n.o.s. (FK506) UN#: 2811
Class: 6.1 Packing Group: III

**DOT (US):** Proper Shipping Name: Toxic solids, organic, n.o.s. (FK506) UN#: 2811
Class: 6.1 Packing Group: III Marine Pollutant: No Poison Inhalation Hazard: No

**IATA:** UN#: 2811 Class: 6.1 Packing Group: III Proper Shipping Name: Toxic solids, organic, n.o.s. (FK506)
Technical Name: Required

**IMDG:** UN#: 2811 Class: 6.1 Packing Group: III Proper Shipping Name: Toxic solids, organic, n.o.s. (FK506)
Marine Pollutant: No Severe Marine Pollutant: No Technical Name: Required.

Section 15 – Regulatory Information

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
no data available

15.2 Chemical Safety Assessment
no data available

**OSHA Hazards**
Target Organ Effect, Toxic by ingestion. Target Organ: Immune system

**SARA 302 Component:** None of the ingredients are listed.

**SARA 313 Component:** None of the ingredients are listed.

**SARA 311/312 Hazards:** Acute Health Hazard, Chronic Health Hazard

**U.S. State Regulations**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Massachusetts RTK</th>
<th>New Jersey RTK</th>
<th>Pennsylvania RTK</th>
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<tbody>
<tr>
<td>FK506</td>
<td>-</td>
<td>X</td>
<td>X</td>
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</tbody>
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**California Prop. 65 Components**
This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16 – Other Information

The information contained in this MSDS relates only to the material(s) designated and does not relate to use(s) in combination with any other material, process(es) and/or chemical reaction(s). InvivoGen provides this information in good faith and is based on our present knowledge. This MSDS is provided without warranty of any kind. The recipient is responsible for ensuring that, where applicable, existing laws and guidelines are observed.