

Product Name: CellXVivo Mouse Th17 Cell Differentiation Kit

Reviewed on: 06 April 2017

1. Identification of Substance:

- **Other means of identification: Catalog Number:** CDK017
Contains: Hamster anti-Mouse CD3, Rat Anti-Mouse CD28, Mouse Th17 Reagent 1, Mouse Th17 Reagent 2, Mouse Th17 Reagent 3, Mouse Th17 Reagent 4, Mouse Th17 Reagent 5, Reconstitution Buffer 1, Reconstitution Buffer 2, Reconstitution Buffer 3 (contains Hydrochloric Acid), 20X Wash Buffer.
- **GHS product identifier:** CellXVivo Mouse Th17 Cell Differentiation Kit
- **Application of the substance / the preparation:** For Research Use Only
 - **Manufacturer/Supplier:**
Bio-Techne - R&D Systems Inc.
614 McKinley Place N.E.
Minneapolis, MN 55413 USA
1-800-343-7475
 - **For product related questions call:** 1-800-343-7475. In Europe call: +44(0)1235-529449.
- **Emergency information:** In case of a chemical emergency, spill, fire, or exposure, call R&D Systems at (612) 379-2956 or (800)-343-7475. In Europe call +44(0)1235-529449

2. Hazard Identification:

Classification: Regulation (EC) No. 1272/2008 (CLP/EU-GHS), 29 CFR 1910.1200 (OSHA): Contains Hydrochloric Acid (less than 5%) – not a hazardous substance at this concentration.

All components are non-hazardous.

- **Pictogram:** none
- **Signal Word:** none
- **Hazard statements:** none
- **Precautionary statements:** none
Response: not needed
- **Classification according to Directive 67/548/EEC:** Not a hazardous substance
- **Hazard Symbol / R-Phrase / S-Phrase:** C-Corrosive, Xi-Irritant / R34-Causes burns, R36-Irritating to eyes, R37-Irritating to respiratory system, R38-Irritating to skin.
- **Other hazards:** none

3. Information on Ingredients:

Description: Hydrochloric Acid, Formula: HCl.

Contains	CAS No.	EC-No.	Index-No.	Content
Water	7732-18-5	231-791-2	NA	>95%
Hydrochloric Acid	7647-01-0	231-595-7	017-002-01-X	<5%

4. First Aid Measures:

- **IF IN EYES:** Rinse thoroughly with water for at least 15 minutes and immediately consult a physician.
- **IF ON SKIN (or hair):** Immediately take off contaminated clothing or shoes. Wash with plenty of soap and water. Consult a physician.
- **IF INHALED:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- **IF SWALLOWED:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately consult a physician.
- **Potential acute / delayed health effects:**
Eye contact: Causes serious eye irritation

Rev 0

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Page 1 of 5

Product Name: CellXVivo Mouse Th17 Cell Differentiation Kit

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Skin contact: Causes skin irritation

Inhalation: Inhalation of vapors can cause coughing, choking, inflammation of the nose, throat, and upper respiratory tract and in severe cases, pulmonary edema, circulatory failure, and death. / Long term exposure to vapors may cause erosion of teeth. Long term exposures seldom occur due to the corrosive properties of this acid.

Ingestion: Harmful if swallowed. Irritating to mouth, throat and stomach

- **Notes to physician:** Consult a physician. Show this safety data sheet to the doctor in attendance.

5. Fire Fighting Measures:

- **Suitable extinguishing agents:** Use water spray or extinguishing measure that are appropriate to local circumstances and the surrounding environment.
- **Hazards from the substance or mixture:** Hydrogen chloride gas.
- **Special precautions for fire-fighters:** Self contained breathing apparatus and full protective clothing must be worn in case of fire.
- **Other information:** This product does not burn.

6. Accidental Release Measures:

- **Person-related safety precautions:** Use appropriate personal protective equipment to prevent contamination of skin, eyes and personal clothing. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
- **Measures for environmental protection:** Keep away from drains.
- **Measures for containment and cleaning:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. Handling and Storage:

- **Precautions for safe handling:** Avoid inhalation of vapour or mist. Avoid contact with eyes and skin.
- **Conditions for safe storage:** Store in a cool, dry place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Do not store in metal containers.

8. Exposure Controls and Personal Protection:

- **Control parameters:**
 - OSHA PEL / NIOSH REL / ACGIH TLV: 5 ppm (7 mg/m³ as a ceiling limit)
 - EU Commission Directive 2000/39/EC: 8 hours – 5 ppm (8 mg/m³) / Short term 10 ppm (15 mg/m³)
- **Appropriate engineering controls:** Use with adequate ventilation including local extraction. Ensure that eyewash stations and safety showers are close to the workstation location.
- **Individual protection measures:** Wash hands thoroughly after handling chemical products and before eating, smoking or using the toilet. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.
 - Eye/face protection:** Wear approved safety goggles.
 - Skin/hand protection:** Handle with protective gloves, plastic or rubber. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
 - Body protection:** Wear suitable protective clothing as protection against splashing or contamination.
 - Other skin protection:** Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.
 - Respiratory protection:** In case of inadequate ventilation, use a suitable respirator. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Product Name: CellXVivo Mouse Th17 Cell Differentiation Kit

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9. Physical and Chemical Properties:

- **Appearance:** Colorless
Liquid
- **Upper/lower flammability or explosive limits:** Not available
- **Odor:** Pungent
- **Odor threshold:** Not available
- **pH:** ~1 - 2
- **Melting point/freezing point:** Not available
- **Boiling point/Boiling range:** Not available
- **Flash point:** Not available
- **Evaporation rate:** Not available
- **Flammability (solid, gas):** Not available
- **Upper/lower flammability or explosive limits:** Not available
- **Vapor density:** Not available
- **Vapor pressure:** Not available
- **Relative density:** Not available
- **Solubility in/Miscibility with Water:** Soluble
- **Partition coefficient: octanol/water:** Not available
- **Auto igniting:** Not available
- **Decomposition temperature:** Not available
- **Viscosity:** Not available

10. Stability and Reactivity:

- **Reactivity:** No data available
- **Chemical Stability:** Stable under recommended storage conditions.
- **Possibility of hazardous reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.
- **Conditions to avoid:** Hydroxides, amines, alkalis and metals.
- **Incompatible materials:** Hydroxides, amines, alkalis or metals such as copper, brass, zinc, potassium and sodium should be avoided.
- **Hazardous decomposition products:** Products formed under fire conditions: toxic gasses and vapors such as chlorine.

11. Toxicological Information:

- **Acute toxicity:** Irritating and corrosive to eyes, skin, and mucous membranes. Can cause severe burns upon contact while the vapors or mist are corrosive and can cause severe irritation or damage to the nose, throat and lungs. Ingestion of this product causes severe burns to the mouth, esophagus, and stomach, with consequent pain, nausea and vomiting.
- **Skin corrosion/irritation:** Can cause burns of the skin and mucous membranes.
- **Serious eye damage/irritation:** Can cause burns, reduced vision or blindness.
- **Respiratory or skin sensitization:** No data available
- **Germ cell mutagenicity:** No data available
- **Carcinogenicity:** IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Hydrochloric acid)
- **Reproductive toxicity:** No data available
- **Specific target organ toxicity (STOT) -single exposure:** 3
- **Specific target organ toxicity (STOT) -repeated exposure:** No data available
- **Aspiration hazard:** Can cause severe burns. Causes respiratory tract irritation.
- **Information on likely routes of exposure:** Routes of entry anticipated; oral, dermal, inhalation.
- **Symptoms related to the physical, chemical and toxicological characteristics:**
 - Inhalation:** May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
 - Ingestion:** May be harmful if swallowed. Causes burns.
 - Skin contact:** May be harmful if absorbed through skin. Causes burns.
 - Eye contact:** Causes eye burns.
- **Delayed and immediate effects and also chronic effects from short and long term exposure:**

Product Name: CellXVivo Mouse Th17 Cell Differentiation Kit

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Short term exposure: Potential immediate effects: Exposure to vapor or aerosol produces inflammation and may cause ulceration of the nose, throat, and larynx; laryngeal spasm or. Eye and skin burns occur at high concentrations. Burns of the skin and mucous membranes result from contact with the solution.

Potential delayed effects: Burns may progress to ulcerations and to keloid and retractile scarring. Pulmonary edema may occur on rare occasions.

Long term (chronic) exposure: Potential immediate effects: Chronic exposure by skin contact with aqueous solutions may result in dermatitis and photosensitization. Dental discoloration and erosion. **Potential delayed effects:** Not available.

- **Numerical measures of toxicity:** Not available
- **Other Information:** NA

12. Ecological Information:

- **Ecotoxicity:** High concentrations may be toxic to aquatic life.
- **Biodegradability:** When released into the soil, this material is not expected to degrade without pretreatment and may leach into groundwater.
- **Bioaccumulative potential:** No data available.
- **Mobility in soil:** Liquid may leach into groundwater.
- **Other adverse effects:** No data available.

13. Disposal Considerations:

- **Disposal methods:** Dispose of waste in accordance to applicable national, regional, or local regulations. This material should be handled as hazardous waste by a licensed disposal company.
- **Contaminated packaging:** Dispose in the same manner as unused product.
- **Special precautions:** Dispose of small amounts of spilled material as described in section 6. Large spills must be dealt with separately by qualified disposal personnel. Avoid dispersal of spill material to soil, waterways, drains and sewers.

14. Transportation Information:

- **ADR/RID ADN/ADNR IMDG IATA/DOT –** Not regulated.
- **UN Number:** None
- **DOT regulations:** · **Hazard class:** None
- **Land transport ADR/RID (cross-border):** Not regulated.
- **Maritime transport IMDG:** Not regulated.
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:** Not regulated.
- **Transport/Additional information:** Not dangerous according to the above specifications.

15. Regulations:

- **US Federal and State Regulations**
 - TSCA (Toxic Substances Control Act):** On TSCA Inventory
 - SARA 313 Components:** Not listed
 - SARA 311/312 Hazards:** Acute Health Hazard
 - CERCLA Reportable Quantity:** 5,000 lbs.
 - California Proposition 65:** Not listed.

16. Other Information:

Rev 0
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Page 4 of 5

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- **R-Phrase:** R34-Causes burns, R36-Irritating to eyes, R37-Irritating to respiratory system, R38-Irritating to skin.
- **S-Phrase:** S26, In case of contact with eyes, rinse immediately with plenty of water and see medical advice.
- **STOT SE 3**

- **Notice to reader:** To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.