

**Section 1 – Product & Company Identification**

Product Name: PRIME-XV® T Cell Expansion XSFM  
Product Number: 91141

Company: Irvine Scientific  
2511 Daimler Street  
Santa Ana, California 92705-5588

Technical Phone Number: 800-437-5706  
Fax Number: 949-261-6522  
Emergency Phone Number: 800-437-5706  
E-Mail Address: tmrequest@irvinesci.com

**Section 2 – Hazards Identification**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS].

HMIS Rating: Health = 0, Fire = 0, Reactivity = 0

NFPA Rating: Health =0, Flammability = 0, Reactivity = 0

**Section 3 – Composition/Information on Ingredients**

**Formula:** Mixture

**Molecular Weight:** Mixture

Product name:	CAS Number	EC Number	Content
PRIME-XV® T Cell Expansion XSFM	None	None	None

Contains:			
Sodium Selenite	10102-18-8	233-267-9	<0.001%

**Section 4 – First Aid Measures**

**General information:** When in doubt or if symptoms are observed, get medical advice.

**After inhalation:** Move person into fresh air. Consult a physician if you feel unwell.

**After skin contact:** Wash off with soap and plenty of water. Remove contaminated clothing.  
Consult a physician.

**After eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**After swallowing:** Rinse mouth with water. Call a physician.

- **Most important symptoms and effects, both acute and delayed:** Unknown
- **Indication of any immediate medical attention and special treatment needed:** no data available

### Section 5 – Fire Fighting Measures

Suitable Extinguishing Media: Water, foam, extinguishing powder, carbon dioxide (CO<sub>2</sub>)

Extinguishing media which must not be used for safety reasons: None

In case of fire may be liberated: Emits toxic fumes under fire conditions

Special protective equipment for fire-fighters: Wear a self-contained breathing apparatus

- **Suitable extinguishing agents:** Powder, water spray, foam or carbon dioxide.
- **Special hazards arising from the substance or mixture:** Emits irritating fumes under fire conditions.
- **Protective equipment:** Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
- **Further information:** Use water spray to cool unopened containers.

### Section 6 – Accidental Release Measures

Personal precautions: Provide adequate ventilation

Environmental Precautions: None

Methods for cleaning up:

Suitable material for diluting or neutralizing: water

Suitable material for taking up: sand, absorbing material, earth

- **Person-related safety precautions:** Wear respiratory protection. Use appropriate personal protective equipment to prevent contamination of skin, eyes and personal clothing. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition.
- **Measures for environmental protection:** Keep away from drains. **Discharge into environment must be avoided.**
- **Measures for containment and cleaning:** Contain spillage and collect with a electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Keep in suitable closed containers for disposal. See section 13.

### Section 7: Handling & Storage

Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid inhalation of vapor or mist. Keep away from sources of ignition.

Storage:

Storage temperature: Store according to product specifications.

- **Precautions for safe handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid inhalation of vapor or mist. Keep away from sources of ignition. No smoking or eating in the laboratory areas.
- **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.
- **Recommended storage:** 2-8°C

## Section 8 – Exposure controls / Personal protection

Exposure limit values: Not available

Exposure Controls:

Product related measures to prevent exposure: Observe the expiry date

Personal protection equipment:

Respiratory protection: No personal respiratory protective equipment normally required.

Where protection is desired, use multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: disposable gloves

Eye protection: Eye glasses

Protective clothing: Lab coat

General health and safety measures: No specific equipment required.

- **Control parameters:** Contains no substances with occupational exposure limit values.
- **Appropriate engineering controls:** Use adequate general or local exhaust ventilation to keep airborne odors low. Facilities should be equipped with an eyewash and a safety shower.
- **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 appropriate protective eyeglasses or chemical safety goggles.

**Skin/hand protection:** Wear appropriate protective gloves to prevent skin exposure.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body protection:** Wear appropriate protective clothing to prevent contact with skin.

## Section 9 – Physical and Chemical Properties

General:

Physical State: Liquid

Color: Clear, red solution

Odor: Characteristic

Important health, safety and environmental information:

pH value: Not Available

Melting point / melting range: Not available

Solidifying point: Not available

Freezing point: Not available

Boiling point: Not available

Vapor pressure: Not available

Density: Not available

Bulk density: Not available

Solubility: Soluble in Water

Viscosity: Not available

Flow time: Not available

Other information:

Solvent Content (%): 0%

**Section 10 – Stability and Reactivity**

Stability: Stable

Conditions to avoid: Temperatures where material becomes melted

Materials to avoid: Oxidizing agents, Strong; Reducing agent, strong

Hazardous decomposition products: Carbon monoxide, oxides of sulfur, irritating and toxic fumes and gases, carbon dioxide. Products formed under the condition; Sodium Oxide, Selenium oxides.

**Section 11 – Toxicological Information**

Toxicokinetics metabolism and distribution: Not determined

Toxicological effects: Not determined

Irritant and corrosive effects: Not determined

**Acute toxicity: Oral LD50:** LD50 Oral, rat – 244 mg/kg, LD50 Inhalation, mouse – 13200 mg/m<sup>3</sup>. LD50 Dermal, rabbit – 150 mg/kg

- **Skin corrosion/irritation:** Skin, rabbit – irritating to skin.
- **Serious eye damage/irritation:** Eyes, rabbit – Risk of serious damage to eyes.
- **Respiratory or skin sensitization:** No data available.
- **Germ cell mutagenicity:** Experiments showed mutagenic effects in cultured bacterial cells.
- **Carcinogenicity:** IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **Reproductive toxicity:** No data available
- **Specific target organ toxicity (STOT) -single exposure:** Irritating to eyes, skin and respiratory tract. May cause effects on the central nervous system.
- **Specific target organ toxicity (STOT) -repeated exposure:** No data available
- **Aspiration hazard:** No data available
- **Information on likely routes of exposure:** oral, dermal, inhalation.
- **Potential Health Effects:**
  - Inhalation: May cause respiratory tract irritation or shortness of breath.
  - Ingestion: Toxic if swallowed.
  - Skin: May causes skin irritation, redness and pain.
  - Eyes: May cause eye irritation, redness and pain.
- **Symptoms related to the physical, chemical and toxicological characteristics:**
  - Inhalation: Caused respiratory tract irritation, respiratory depression, nausea and headache.
  - Ingestion: Causes nausea.
  - Skin: Causes skin irritation.
  - Eyes: Causes eye irritation.
- **Delayed and immediate effects and also chronic effects from short and long term exposure:**  
No data available.
- **Other Information:** RTECS: KL5600000

**Section 12 – Ecological Information**

- **Ecotoxicity: This substance is toxic to aquatic life. Fish:** LC50 (Leuciscus idus-Carp) – 46 mg/L – 96 hr.  
**Daphnia:** LC50 (Daphnia magna-Water flea) – 1.2 mg/L – 48 hr.
- **Biodegradability:** no data available
- **Bioaccumulative potential:** Not expected to biodegrade rapidly under anaerobic conditions.
- **Mobility in soil:** Is expected to have very high mobility in soil.
- **Other adverse effects:** Toxic to aquatic life.

**Section 13 – Disposal Considerations**

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal.

- **Disposal methods:** This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
- **Contaminated packaging:** Dispose in the same manner as unused product.
- **Special precautions:** no data available

**Section 14 – Transportation Information**

Land transport (ADR/RID): Not a dangerous good in sense of this transport regulation.

Inland water ways transport (ADN): Not a dangerous good in sense of this transport regulation.

Sea transport (IMDG): Not a dangerous good in sense of this transport regulation.

Air transport (ICAO-TP / IATA-DGR): Not a dangerous good in sense of this transport regulation.

DOT Classification: Not a DOT controlled material (United States)

**Section 15 – Regulatory Information**

For this mixture a chemical safety assessment has not been carried out.

Germany: WGK: 1 - Self-Assessment

Listed European Food Additive: None of the ingredients are on the inventory, and may be exempt from listing.

TSCA Inventory List: None of the ingredients are on the inventory list.

CERCLA: Not Available

SARA Title III: Not Available

Foreign Inventory List: Not Available

**Section 16 – Other Information**

Irvine Scientific supplies Material Safety Data Sheets (MSDS) for products you have purchased. The regulations promulgated by OSHA for Hazard Communication, 29 CFR 1910.1200, and 1907/2006/EC and are used as the basis for the development of the MSDS. All information is offered in good faith as accurate, but is furnished without guaranty. No claim is made that the information is all inclusive, and should only be used as a guide. Irvine Scientific shall not be held liable for any damage resulting from handling or from contact with the product. Federal and California Hazard Communication regulations stipulate that any food, food additive, color additive, drug, cosmetic or medical or veterinary device or product, including materials intended for use as ingredients in such products (e.g, flavors and fragrances), as such terms are defined in the Federal Food, Drug, and Cosmetic Act (21 USC 301 et seq) or the Virus-Serum-Toxic Act of 1913 (21 USC 151 et seq), and regulations issued under those Acts, when they are subject to the labeling requirements under those Acts by either the Food and Drug Administration or the Department of Agriculture do not require labeling