



### Section 1 – Product & Company Identification

Product Name: Recombinant Human CD40 Ligand ACF  
Product Number: 95104  
Application of substance / the preparation: For Research Only

Company: Irvine Scientific  
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Santa Ana, California 92705 USA

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### Section 2 – Hazards Identification

**Classification:** This substance does not meet the classification criteria of the EC Directives 67/548/EEC, 1999/45/EC or 1272/2008

**Label Elements:** The product does not need to be labeled in accordance with EC directives or respective national laws.

**Special Hazards:** None

### Section 3 – Composition/Information on Ingredients

**Substances:** This product does not contain hazardous chemicals at concentrations of 1% or greater. Additionally, this product is not known to contain carcinogens at concentrations of 0.1% or greater. As a result, a Material Safety Data Sheet is not required for this product.

### Section 4 – First Aid Measures

**After inhalation:** Supply fresh air; consult doctor in case of complaints.  
**After skin contact:** Immediately wash with water and soap and rinse thoroughly. Generally the product does not irritate the skin.  
**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.  
**After Swallowing:** Rinse mouth with water. Seek medical attention and appropriate follow-up

### Section 5 – Fire Fighting Measures

**Suitable Extinguishing Media:** This product is non-flammable. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Protective equipment:** Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

**Section 6 – Accidental Release Measures**

**Person-related safety precautions:** Use standard laboratory practices including proper personal protective equipment.

**Measures for environmental protection:** Do not let product enter drains

**Measures for containment and cleaning:** Absorb liquid components with liquid-binding material. Pick up mechanically. Dispose contaminated material as waste according to item 13.

**Additional Information:** None

**Section 7: Handling & Storage**

**Precautions for safe handling:** No special measure required. No special precautions are necessary if used correctly.

**Information about protection against explosions and fires:** No special measures required.

**Conditions for safe storage:** Store according to product specification.

**Section 8 – Exposure controls / Personal protection**

**Control parameters:** None Known. Contains no substances with occupational exposure limits.

**Appropriate engineering controls:** follow usual standard laboratory practices. Use appropriate chemical resistant gloves, appropriate safety glasses and wear protective work clothing.

**Section 9 – Physical and Chemical Properties**

**Appearance:** Lyophilized white powder or clear liquid.

**Odor:** Little or none.

**Odor threshold:** Not available.

**pH:** Not available.

**Melting/freezing point:** Not available.

**Boiling point or range:** Not available.

**Flash point:** Not available.

**Evaporation rate:** Undetermined.

**Flammability:** Not available.

**Upper/lower flammability or explosive limits:** Not available.

**Vapor pressure/density:** Not available.

**Relative Density:** Not available.

**Solubility in/Miscibility with water:** Not available.

**Partition coefficient:** Not available.

**Auto ignition:** Product is not self igniting.

**Decomposition temperature:** Not available.

**Viscosity:** Not available.

**Section 10 – Stability and Reactivity**

**Reactivity:** Stable under recommended transport and storage conditions.

**Chemical Stability:** Stable under recommended storage and handling temperatures.

**Possible hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.

**Incompatible materials to be avoided:** Heat and moisture.

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

**Hazardous decomposition products:** In combustion, this product may emit toxic fumes. No known decomposition information.

**Section 11 – Toxicological Information**

**Acute toxicity:** Classification criteria are not met based on available data.

**Skin irritant effect:** Classification criteria are not met based on available data.

**Eye irritant effect:** Classification criteria are not met based on available data.

**Sensitization:** Classification criteria are not met based on available data.

**Mutagenicity:** Classification criteria are not met based on available data.

**Carcinogenicity:** Classification criteria are not met based on available data.

**Reproductive Toxicity:** Classification criteria are not met based on available data.

**Additional toxicological information:** When used and handled according to specifications, the product does not have any harmful effects according to available information.

**Section 12 – Ecological Information**

**Ecotoxicity:** Undetermined.

**Biodegradability:** Undetermined.

**Mobility:** Undetermined.

**Section 13 – Disposal Considerations**

**Disposal methods:** Dispose of waste in accordance to applicable national, regional, or local regulations.

**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 spilt material to soil, waterways, drains and sewers.

**Section 14 – Transportation Information**

**UN Number:** Does not meet the criteria for classification as hazardous for transport.

**DOT regulations:** Hazards 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.

**Section 15 – Regulatory Information****US Federal and State Regulations**

**TSCA (Toxic Substances Control Act):** This product is not listed

**SARA 313:** This product is not listed.

**SARA 311/312 Hazards:** None Known.

**CERCLA Reportable Quantity:** Unknown.

**California Proposition 65:** This product is not listed on the California's listing of known or potential carcinogens.

**Section 16 – Other Information**

Irvine Scientific supplies Safety Data Sheets (SDS) 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 SDS. 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.