

## Material Safety Data Sheet

---

### Section 1- Product and Company Information

<b>Product Name</b>	Onco-Ref™ Mutation Cell Line
<b>Company</b>	Applied StemCell, Inc.
<b>Address</b>	521 Cottonwood Dr, Suite 111 Milpitas, CA 95035 USA
<b>Technical Phone</b>	408-773-8007
<b>Toll Free Phone</b>	(866) 497-4180
<b>Fax</b>	(408) 773-8238

### Section 2- Composition/Information on Ingredients

#### Composition Cells in 10% FBS and 5% DMSO

Fetal bovine serum and bovine calf serum are considered non-hazardous per 21 CFR 1910.1200. Since workers differ in sensitivity to animal derived materials, Applied StemCell recommends that Good Laboratory Practices be exercised when using these products, including the use of gloves, eye protection, and a lab coat.

### Section 3 Hazards Identification

Potential Health Effects:

EYE May cause irritation of the eye.

SKIN: May cause skin irritation

INHALATION: No toxicity expected from inhalation

INGESTION: Mildly irritating to mouth, throat and stomach. May cause abdominal discomfort.

### Section 4 First Aid Measures

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### Section 5 Fire Fighting Measures

Not applicable. Standard equipment is sufficient.

### Section 6 Accidental Release Measures

Use of these products in accordance with Good Laboratory Practices should not result in explosive mixtures being formed.

SPILL CLEANUP: Absorb spill. Common absorbent materials should be effective. Deposit in appropriate containers for removal and disposal.

### Section 7 Handling and Storage

Store in liquid nitrogen. Keep closed or covered when not in use.

### Section 8 Exposure Controls/Personal Protective Equipment

Respiratory protection, ventilation, protective gloves are not required under normal product usage. Area ventilation is usually adequate.

### Section 9 Physical and Chemical Properties

Physical state is red liquid. Store in liquid nitrogen until ready for use.

---

#### Applied StemCell, Inc.

521 Cottonwood Dr. #111, Milpitas, CA 95035

Phone: 866-497-4180 (US Toll Free); 408-773-8007 Fax: 408-773-8238

[info@accuref.com](mailto:info@accuref.com) [www.accuref.com](http://www.accuref.com) [www.appliedstemcell.com](http://www.appliedstemcell.com)

Copyright 2018, Applied StemCell, Inc. All rights reserved. This information is subject to change without notice.

## Material Safety Data Sheet

---

### Section 10 Stability and Reactivity

Use of these products in accordance with Good Laboratory Practices should not result in explosive mixtures being formed. Product is stable under normal conditions of use.

### Section 11 Toxicological Information

No information available.

### Section 12 Ecological Information

No information available.

### Section 13 Disposal Considerations

In case of spill, absorb and dispose of waste in accordance with all federal, state and local environmental regulations.

### Section 14 Transport Information

DOT (US)                      UN-Number: 1993

Class: CBL

Packing group: III

Proper shipping name: Combustible liquid, n.o.s. (Dimethyl sulfoxide)

Marine pollutant: No

Poison Inhalation Hazard: No

IATA                              Not dangerous goods.  
 IMDG                              Not dangerous goods.

### Section 15 Regulatory Information

Standards and Regulations                      This product is solely for research and development purposes only and may not be used, processed or distributed for a commercial purpose. It may only be handled by technically qualified individuals.

---

OSHA Hazard (US)                      Combustible Liquid, Target Organ Effect. Target Organs: Eyes, Skin. Harmful if swallowed.

---

DSL Status                                      This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Dimethyl sulfoxide CAS No.: 67-68-5

US state Regulations	Chemical Name	Massachusetts RTK	New Jersey RTK	Pennsylvania RTK
	Dimethyl sulfoxide	-	X	X

---

#### Applied StemCell, Inc.

521 Cottonwood Dr. #111, Milpitas, CA 95035  
 Phone: 866-497-4180 (US Toll Free); 408-773-8007 Fax: 408-773-8238  
[info@accuref.com](mailto:info@accuref.com) [www.accuref.com](http://www.accuref.com) [www.appliedstemcell.com](http://www.appliedstemcell.com)

Copyright 2018, Applied StemCell, Inc. All rights reserved. This information is subject to change without notice.

## Material Safety Data Sheet

---

California  
Proposition 65

This product does not contain chemicals listed under Proposition 65.

### Labeling, risk and safety phrases according to EU directives

R21	Harmful in contact with skin
R22	Harmful if swallowed
R36	Irritating to eyes
R38	Irritating to skin
Caution	Substance not fully tested.

### Section 16 Other Information

#### Disclaimer:

For research use only. Not for clinical, drug, household or other uses.

#### Warranty:

The above information is believed to be correct to the best of our knowledge, but does not purport to be all-inclusive and shall be used only as a guide. Applied StemCell shall have no liability for any direct, indirect, consequential or incidental damages arising out of the use, the results of use, the inability to use, the handling or contact with these products.

---

#### Applied StemCell, Inc.

521 Cottonwood Dr. #111, Milpitas, CA 95035

Phone: 866-497-4180 (US Toll Free); 408-773-8007 Fax: 408-773-8238

[info@accuref.com](mailto:info@accuref.com) [www.accuref.com](http://www.accuref.com) [www.appliedstemcell.com](http://www.appliedstemcell.com)

Copyright 2018, Applied StemCell, Inc. All rights reserved. This information is subject to change without notice.