

# Material Safety Data Sheet

## SECTION 1: PRODUCT IDENTIFICATION

<b>Product Name:</b> <b>Superoxide Dismutase Activity Kit</b>	<b>Product Number:</b> <b>900-157</b>
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### Manufacturer's Information:

Company Name: Assay Designs, Inc.  
Address: 5777 Hines Drive  
Ann Arbor, MI 48108 USA  
Emergency Phone Numbers: 800.833.8651 (USA & Canada)  
734.668.6113  
Fax Number: 734.668.2793

## SECTION 2: COMPONENTS

<u>Part Number:</u>	<u>Name:</u>	<u>Quantity:</u>
80-1639	Clear Microtiter Plate	5 each
80-1642	SOD Standard	50 µL
80-1643	10x SOD Buffer	20 mL
80-1644	Xanthine Oxidase	3 mL
80-1645	10x Xanthine Solution	2 mL
80-1641	20% Triton-x-100	1 mL
80-1646	WST-1 Reagent	3 mL

## SECTION 3: HAZARDS

The physical, chemical and toxicological properties of these components have not been fully investigated. It is recommended that all laboratory personnel follow standard laboratory safety procedures when handling this product. Safety procedures should include wearing OSHA approved safety glasses, gloves, and protective clothing. Direct physical contact with all components in this product should be avoided. Harmful if swallowed. Causes severe eye irritation. May be harmful if inhaled or in contact with skin. Toxicology not fully investigated. The product may contain traces of ethylene oxide or dioxane, which are probably human carcinogens.

<u>Known Hazardous Components</u>	<u>CAS Number</u>	<u>Percent</u>
Triton x-100 (PN 80-1641)	9002-93-1	20%
Sodium Hydroxide (PN 80-1645)	1310-73-2	0.08-4.0%

## Section 4: First Aid Measures

**Ingestion** If swallowed do not induce vomiting. Give 2-4 cups of milk, if the person is conscious. Call a physician or poison control.

**Skin Contact** Flush with copious amounts of water and wash with soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician if irritation or discomfort develops.

**Inhalation** Remove to fresh air. If breathing becomes difficult give oxygen. If breathing stops, administer artificial respiration. Call a physician.

**Eye Contact** Flush with copious amounts of water for at least 15 minutes. Check for and remove contact lenses. Assure adequate flushing by separating the eyelids. Call a physician.

If medical attention is required, provide product label and/or MSDS.

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### Section 5: Fire Fighting Measures

Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products.

Extinguishing Media:

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

### Section 6: Accidental Release Measures

Ventilate area. Shut off all sources of ignition. Wear appropriate protective gear. Absorb spill with inert material, then place into a chemical waste container. Wipe or pick-up materials, place in sealed container, dispose of in accordance with federal, state, and local regulations.

Wash spill site thoroughly with soap and water after material pick-up is complete.

### Section 7: Handling and Storage

This kit should be stored as recommended on the product label. All components should be kept in tightly closed containers. Refer to the Storage section of the kit insert for further information. This kit should only be handled and used by qualified, trained professionals.

### Section 8: Exposure Control / Personal Protection

Refer to Sections 6 and 7.

### Section 9: Stability and Reactivity

This product is stable until the expiration date indicated on the label under the specified storage conditions. Incompatible materials: acids. Refer to the kit insert for further information.

### Section 10: Toxicological Information

Oral rat LD50 : 930 mg/kg investigated as a mutagen, reproductive effector.

### Section 11: Ecological Information

Ecotoxicity:

TLm, mosquito fish, 125 ppm/96hr. (fresh water); TLm, bluegill, 99 mg/48hr. (tap water).

Environmental Fate:

This chemical is not mobile in solid form, although it absorbs moisture very easily. Once liquid, sodium hydroxide leaches rapidly into the soil, possibly contaminating water sources.

Physical/Chemical:

No information found.

Other:

No information found.

96 Hr LC50 fathead minnow: 1370mg/L (flow-through)

### Section 12: Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used as a guide. Assay Designs, Inc. shall not be held liable for any damage resulting from handling or contact with the above product. The burden of safe use of these materials rests solely with the user.

Assay Designs, Inc., Emergency Phone Numbers: 800.833.8651 (USA & Canada) or 734.668.6113