

Material Safety Data Sheet

Section 1: Product Information		
Product Name: NWLSS™ Mn SOD (SOD2) ELISA		
Product Number: NWK-SOD04		
Manufacturer's Information:		
Company Name:	Northwest Life Science Specialties, LLC	
Address:	5131 NE 94th Avenue Vancouver, WA 98683	
Emergency Phone:	888-449-3091, 360-449-3091	
Section 2: Components		
<u>Part Description</u>	<u>Quantity</u>	
96 well microplate pre-coated with anti-Mn SOD (SOD2) antibody:	1 each	
Recombinant human Mn SOD (SOD2) Standard (Containing 0.01% Sodium Azide)	1 Vial	
Sample/Standard Dilution Buffer	25 mL	
100X Secondary Antibody (Lyophilized) (Biotin labeled anti rHu Mn SOD (SOD2) containing 0.01% Sodium Azide)	1 Vial	
Reagent Dilution Buffer	25 mL	
100X Avidin-HRP Conjugate	150 uL	
Assay Preparation Buffer	30 mL	
TMB Substrate Solution:	15 mL	
Stop Solution (1 N Sulfuric Acid):	15 mL	
20X Concentrated Wash Buffer:	25 mL	
Section 3: Hazardous Ingredients		
<u>Known Hazardous Components:</u>	<u>CAS Number</u>	<u>Percent</u>
3' 3,3',5,5'-Tetramethylbenzidine	54827-17-7	1%
Sodium Azide (NaN ₃)	26628-22-8	0.01%
Sulfuric Acid (1N)	7664-93-9	≤1%
Section 4: Fire and Explosion Data		
None of the components of this product pose a significant risk in case of fire. Fire fighting media should be selected as appropriate to surrounding fire conditions. Firefighters should wear suitable protective gear to limit exposure possibilities including inhalation.		

Section 5: Stability and Reactivity

The unopened product is stable until the date indicated on the label if stored as specified. Individual and reconstituted components are stable as specified in the product insert. There are no known hazardous reactions between these components.

Section 6: Toxicological Information

23' 3,3',5,5'-Tetramethylbenzidine	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
	LD50	135 mg/kg	IP	Rat
	LD50	316 mg/kg	Oral	Quail

Acute Effects: Irritating to eyes, respiratory system and skin.

Chronic Exposure: Mutagen

<u>Test</u>	<u>Dose</u>	<u>Route</u>	<u>Species</u>
Mammalian Somatic	30700 ug/kg	Lymphocyte	Mouse

Sodium Azide (NaN ₃)	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
	LD50	27 mg/kg	Oral	Rat
	LC50	37 mg/m ³	Inhalation	Rat

Acute Effects: May be fatal if absorbed through the skin swallowed or inhaled.

Irritating to eyes, respiratory system and skin.

Chronic Effects: Carcinogenic and Mutagenic

<u>Test</u>	<u>Dose</u>	<u>Cell Type</u>	<u>Species</u>
Mammalian Somatic	500 mg/L	Lymphocyte	Mouse
Mammalian Somatic	500 mMol/L	Lymphocyte	Rat

Sulphuric Acid	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
	LD50	2140 mg/kg	Oral	Rat
	LC50	510mg/m ³	Inhalation	Rat

Acute Effects: Corrosive irritant to skin respiratory system and mucus membranes.

Chronic Effects: Potential Carcinogen

Section 7: Preventive Measures / Exposure Control

The physical, chemical and toxicological properties of these components have not been fully investigated. It is recommended that laboratory personnel minimize direct skin or eye contact by following standard laboratory safety procedures when handling this product. Standard safety procedures should include wearing OSHA approved safety glasses, gloves and protective clothing.

Section 8: First Aid Measures

<u>Skin Exposure</u>	Remove any contaminated clothing. Flush affected area with copious amounts of water for at least 15 minutes then wash thoroughly. If irritation persists, contact a physician to seek medical advice.
<u>Eye Exposure</u>	If wearing contact lenses, remove them. Flush with copious amounts of water for at least 15 minutes.
<u>Ingestion</u>	If swallowed and individual is conscious, wash out mouth with water. Contact a physician to seek medical advice.
<u>Inhalation</u>	Move to fresh air. If difficulty breathing, oxygen may be administered. If breathing stops, administer artificial respiration and seek emergency medical assistance.

Section 9: Accidental Release / Spillage Measures
Ventilate area. Shut off all sources of ignition. Wear appropriate protective gear. Wipe or pick-up spilled material, place in sealed container if necessary, dispose of in accordance with federal, state, and local regulations. Wash spill site thoroughly after material pick-up is complete.
Section 10: Handling and Storage
This product 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 product insert for additional information. This product should only be handled and used by qualified, trained professional laboratory personnel.
Section 11: Other Information
This information is believed to be correct however does not claim to be all inclusive and is intended as a general guide only. Northwest Life Science Specialties, LLC shall not be held liable for any damage resulting from handling of or contact with this product or components therein. The burden of safe use of this and other products used in connection with this product rests solely with the user.