

Material Safety Data Sheet

Section 1: Product Information				
Product Name: NWLSS™ Hydrogen Peroxide Assay				
Product Number: NWK-HYP01				
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>
Xylenol Orange containing sorbitol:				90 mL
FE(II) Reagent containing Fe ²⁺ in 2.5 M H ₂ SO ₄				2 mL
Catalase Enzyme:				1 mL
Hydrogen Peroxide (3%)				1 mL
Section 3: Hazardous Ingredients				
<u>Known Hazardous Components:</u>	<u>CAS Number</u>			<u>Percent</u>
Ammonium Ferrous Sulfate Hexahydrate	7783-85-9			1.0%
Sulfuric Acid	7664-93-9			14%
Hydrogen Peroxide (3%)	7722-84-1			1.9%
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				
Ammonium Ferrous Sulfate Hexahydrate: <u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>	
LD50	3250 mg/kg	Oral	Rat	
Acute Effects: Irritant Moderate irritant to eyes, respiratory system and skin.				
Sulfuric Acid	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
	LD50	2140 mg/kg	Oral	Rat
	LC50	510 mg/m ³	Inhalation	Rat
	LC50	320 mg/m ³	Oral	Mouse
	LD50	18 mg/m ³	Oral	GP

Acute Effects: Causes severe burns to skin and eyes. Harmful if swallowed or inhaled.

Ingestion can cause stomach pain, nausea and vomiting, diarrhea, dizziness and headache.

Inhalation is destructive to mucous membranes and upper respiratory tract.

Chronic Effects: Carcinogenic, Teratogenic and Mutagenic

<u>Test</u>	<u>Dose</u>	<u>Cell Type</u>	<u>Species</u>
Cytogenic Analysis	40 mM/L	Ovary	Hamster

<u>Hydrogen Peroxide</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
	LD50	3000 mg/kg	Dermal	Rat
	LD50	>50 g/kg	IV	Mouse
	LC50	>850 mg/m ³	ORAL	Rabbit

Acute Effects: Moderate irritant

Irritating to eyes, respiratory system and skin.

Harmful if swallowed.

Very toxic by inhalation.

Chronic Effects: Carcinogen-Mutagen

Carcinogenicity:

Has been shown to be carcinogenic in laboratory animals after 2 year oral exposure.

Mutagenicity:

<u>Test</u>	<u>Dose</u>	<u>Cell type</u>	<u>Species</u>
DNA Damage	9 uM/L	Lymphocyte	Human

<u>Test</u>	<u>Dose</u>	<u>Cell Type</u>	<u>Species</u>
Mammalian Somatic	50 uM/L	Lymphocyte	Rat

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

Skin Exposure 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.

Eye Exposure If wearing contact lenses, remove them. Flush with copious amounts of water for at least 15 minutes.

Ingestion If swallowed and individual is conscious, wash out mouth with water. Contact a physician to seek medical advice.

Inhalation 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.