

SAFETY DATA SHEET

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier X Solution, a component of plexWell™ Library Preparation Kits, contains Sodium Dodecyl Sulfate (included in plexWell Library Preparation Kits, Part Nos: WGS24, PWP24, PW096, PW384)		WHMIS Classification: Hazardous D2B - Eye irritation - toxic - other D2B - Skin irritation - toxic - other Sodium Dodecyl Sulfate (SDS)		
Product Use For Research Use Only. Product intended for enzyme inactivation. See product literature for details.				
Manufacturer's Name seqWell, Inc.		Supplier's Name seqWell, Inc.		
Street Address 376 Hale St.		Street Address 376 Hale St.		
City Beverly		State MA	City Beverly	State MA
Zip Code 01915	Emergency Telephone +1-855-737-9355	Zip Code 01915	Emergency Telephone +1-855-737-9355	
Date MSDS Prepared October 30, 2018		MSDS Prepared By Joseph Mellor	Hours of Operation 9:00 am – 5:00 pm (Mon. – Fri.) EST	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	% (w/v)	CAS Number	LD ₅₀ of Ingredient (Oral rat)	LC ₅₀ of Ingredient (Inhalation rat)	Hazardous
Sodium dodecyl sulfate (SDS), aqueous solution	1%	151-21-3	1288 mg/kg	>3900 mg/kg	YES

SECTION 3 — HAZARDS IDENTIFICATION

Emergency Overview Warning! Harmful if swallowed or inhaled. Causes irritation to eyes, skin, and respiratory tract. May cause allergic skin or respiratory reaction. Sodium Dodecyl Sulfate is provided as a component of X Solution.
Potential Health Effects Inhalation: Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. May cause allergic reaction in sensitive individuals. Ingestion: Large doses may cause gastrointestinal distress, nausea and diarrhea. Skin Contact: Irritating to skin, causes redness and a rash on continued exposure. Eye Contact: Causes irritation, redness, and pain. Chronic Exposure: Chronic exposure may cause skin effects. Aggravation of Pre-existing Conditions: Persons with pre-existing skin disorders or impaired respiratory function may be more susceptible to the effects of the substance.
Physical Hazards Health Rating: 2 – Slight; Flammability Rating: 0 – None; Reactivity Rating: 0 – None; Contact Rating: 3 – Severe (Health)

SECTION 4 — FIRST AID MEASURES

Skin Contact In case of skin contact, flush with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Thoroughly clean clothing and shoes before reuse.
Eye Contact If product enters eyes, immediately wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. Get medical attention immediately.
Inhalation If product is inhaled, move exposed individual to fresh air. If individual is not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

Flammable No	If yes, under which conditions?	
Flash Point Not applicable		
Flammable Limits Not applicable	Extinguishing Media Use extinguishing media suitable for surrounding fire.	NFPA ratings Health: 1; Flammability: 0 Reactivity: 0
Autoignition Temperature (°C) Not applicable	Special Fire and Explosion Hazards No special hazards determined.	
Hazardous Combustion Products SDS emits toxic fumes when heated to decomposition. Can react with oxidizing agents.		
Protective Equipment for Firefighters Use of full protective equipment and self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.		

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures Keep unnecessary and unprotected people away from the spill. Wear appropriate personal protective equipment as specified in Section 8. Dike spilled material with an appropriate inert, non-flammable absorbent and place in a suitable waste container.
Environmental Precautions Contain spill to prevent migration. Dispose waste according to local regulations.

SECTION 7 — HANDLING AND STORAGE

Handling Procedures and Storage Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Store away from strong acids and oxidizing agents.
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SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Airborne Exposure Limits None established.
Specific Engineering Controls Mechanical (general) or local exhaust as needed.
Personal Protective Equipment <input checked="" type="checkbox"/> Gloves <input checked="" type="checkbox"/> Respirator (NIOSH-Approved) <input checked="" type="checkbox"/> Eye <input type="checkbox"/> Footwear <input checked="" type="checkbox"/> Clothing <input checked="" type="checkbox"/> Other
If checked, specify type: Wear latex or nitrile protective gloves to prevent skin contact.
For conditions where exposure to the dust or mist is apparent, a half-face dust/mist respirator (NIOSH-Approved) may be worn.
Wear safety glasses or chemical goggles to prevent eye contact. Have ready access to an emergency eye wash station.
Wear a lab coat to prevent skin contact. Have ready access to an emergency shower.
Wash hands thoroughly after handling. Avoid prolonged contact or unnecessary exposure.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid	Odor and Appearance Slight fatty odor; Clear or white cloudy liquid.	Odor Threshold (ppm) Not applicable
Specific Gravity Approx. 1	Vapor Density (air = 1) Not available	Vapor Pressure (mmHg) Not available
Evaporation Rate Not available	Boiling Point (° C) Not available	Freezing Point (° C) Not available
pH Not available	Coefficient of Water/Oil Distribution Not available	Solubility Soluble in water at 10 g / 100 g water

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions?
Incompatibility with Other Substances <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, which ones? Strong acids, oxidizers.

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Reactivity, and under what conditions? Stable under ordinary conditions of use and storage.

Hazardous Polymerization This substance does not polymerize.
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Hazardous Decomposition Products No decomposition products posing significant hazards would be expected from this product (a dilute aqueous solution), however, oxides of carbon, sulfur and sodium oxide may form when heated to decomposition.
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Conditions to Avoid Avoid contact with incompatible substances, flames, ignition sources.

Routes of entry Ingestion. Most of the hazards (such as irritation of the lungs) associated with SDS are related to its dry form.

SECTION 11 — TOXICOLOGICAL INFORMATION

Toxicity Data for Hazardous Ingredients Oral rat LD50: 1288 mg/kg; Inhalation rat LC50: >3900 mg/kg; IPR-RAT LD50: 210 gm/kg, IVN-RAT LD50: 118 mg/kg; IPR-MUS LD50: 250 mg/kg; IVN-MUS LD50: 118 mg/kg
Irritation Data Skin human, Standard Draize, 25 mg/24-hour, mild; eye rabbit, standard Draize, 250 µg, mild. Investigated as a mutagen, reproductive effector.
Reproductive Toxicity Has caused mutagenic and teratogenic effects on laboratory animals.
Threshold Limit Value (TLV) Not available.
Signs and Symptoms of Overexposure Systemic symptoms: nausea, vomiting, chills, cramps and lethargy.
Carcinogenicity None known or anticipated. IARC Category: None

SECTION 12 — ECOLOGICAL INFORMATION

Environmental Fate

No information available.

Environmental toxicity

96 hr LC50 fathead minnow (fry): 10.2 mg/L; (juvenile): 17 mg/L; (adult): 22.5 mg/L;
96 hr LC50 rainbow trout: 4.6 mg/L (Static)

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal

Dispose of waste product and container in compliance with federal, state and local laws. Recover and recycle if possible. If unsure of the applicable requirements, contact the authorities for information.

SECTION 14 — TRANSPORT INFORMATION

Special Shipping Information

Transportation of this product is not regulated under US DOT. No special precautions required for this product.

SECTION 15 — REGULATORY INFORMATION

Federal and State regulations

Chemical Inventory Status Part 1: TSCA: Yes; EC: Yes; Japan: Yes; Australia: Yes
Chemical Inventory Status Part 2: Canada Korea: Yes; DSL: Yes; NDSL: No; Phil.: Yes
SARA 302: RQ: No; TPQ: No
SARA 313: List: No; Chemical Category: No
CERCLA: No; RCRA261.33: No; TSCA8(d): No
Chemical Weapons Convention: No; TSCA 12(b): No; CDTA: No;
SARA311/312: Acute: Yes; Chronic: Yes; Fire: Yes; Pressure: No; Reactivity: No
Australian Hazchem Code: None allocated
Poison Schedule: None allocated
WHMIS: This MSDS contains the information required by the Controlled Product Regulations

SECTION 16 — OTHER INFORMATION

Date of last revision: October 30, 2018

For further information, please contact seqWell Inc. by telephone or email: info@seqwell.com

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