

SAFETY DATA SHEET

Western-Ready[™] Protein Sample Loading Buffer (5X)

Section 1. Identification		
Product identifier	: Western-Ready™ Protein Sample Loading Buffer (5X)	
Product code	: Not available.	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	the substance or mixture and uses advised against	
Product use	: Research.	
Area of application	: Industrial applications.	
Manufacturer	: BioLegend Inc. 8999 BioLegend Way San Diego, CA 92121 – USA Tel: +1-858-455-9588 (7:00AM – 5:00PM PT, M-F)	
Supplier's details	 RSM Australia Pty Ltd – On Behalf of BioLegend, Inc. Level 21, 55 Collins Street Melbourne VIC 3000 PO Box 248, Collins Street West VIC 8007 Phone: +61 (0) 3 9286 8040 Fax: +61 (0) 3 9286 8199 	
e-mail address of person responsible for this SDS	: cs@biolegend.com	
Emergency telephone number (with hours of operation)	: +61 (0) 3 9286 8040 (24 hours)	

Section 2. Hazard(s) identification

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Classification of the: H312ACOTE TOXICITY (definal) - Category 4substance or mixtureH315SKIN CORROSION/IRRITATION - Category 2H318SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	ification of the ance or mixture	ure H315	
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GHS label elements

Hazard pictograms

Signal word	: DANGER
Hazard statements	 H312 - Harmful in contact with skin. H315 - Causes skin irritation. H318 - Causes serious eye damage.
Precautionary statements	
Prevention	 P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection. P264 - Wash thoroughly after handling.

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Section 2. Hazard(s) identification

Response	:	 P310 - Immediately call a POISON CENTER or doctor. P362 - Take off contaminated clothing and wash before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	1	Not applicable.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	:	Not applicable.
Other hazards which do not	:	None known.

result in classification

Section 3. Composition and ingredient information

Substance/mixture	: Mixture
Other means of identification	: Not available.

Ingredient name	% (w/w)	CAS number
glycerol	≥60 - ≤75	56-81-5
sodium dodecyl sulphate	≥10 - <20	151-21-3

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary firs	<u>it aid measures</u>
Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Section 4. First aid measures

Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

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Potential acute health effect		
Eye contact	Causes serious eye damage.	
Inhalation	No known significant effects or critical hazards.	
Skin contact	Harmful in contact with skin. Causes skin irritation.	
Ingestion	No known significant effects or critical hazards.	
Over-exposure signs/symp	<u>i</u>	
Eye contact	Adverse symptoms may include the following: pain watering edness	
Inhalation	No specific data.	
Skin contact	Adverse symptoms may include the following: pain or irritation redness plistering may occur	
Ingestion	Adverse symptoms may include the following: stomach pains	
Indication of immediate med	attention and special treatment needed, if necessary	
Notes to physician	n case of inhalation of decomposition products in a fire, symptoms may be de The exposed person may need to be kept under medical surveillance for 48 he	
Specific treatments	No specific treatment.	
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training s suspected that fumes are still present, the rescuer should wear an appropria mask or self-contained breathing apparatus. It may be dangerous to the perso providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothin horoughly with water before removing it, or wear gloves.	ate on

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media Suitable extinguishing media	: Use an ex	tinguishing agent suitable	for the surrounding fire.			
Unsuitable extinguishing media	: Do not us	e water jet.				
Specific hazards arising from the chemical	: In a fire or	if heated, a pressure incre	ease will occur and the co	ntainer may	y burst.	
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Section 5. Firefighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides hydrogen chloride
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and material for cor	<u>nta</u>	inment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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Section 7. Handling and storage

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Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name		Exposure limits			
glycerol		Safe Work Australia (Australia, 4/2018). TWA: 10 mg/m ³ 8 hours.			
Appropriate engineering controls		nes, gas, vapour or mist, use process or other engineering controls to keep worker below any recommended or statutory limits.			
Environmental exposure controls	they comply with the requirements of cases, fume scrubbers, filters or eng	Emissions from ventilation or work process equipment should be checked to ensure hey comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.			
Individual protection meas	ures				
Hygiene measures	eating, smoking and using the lavato Appropriate techniques should be us	roughly after handling chemical products, before ry and at the end of the working period. ed to remove potentially contaminated clothing. reusing. Ensure that eyewash stations and station location.			
Eye/face protection	assessment indicates this is necessa gases or dusts. If contact is possible unless the assessment indicates a h	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be equired instead.			
Skin protection					
Hand protection	be worn at all times when handling c this is necessary. Considering the p check during use that the gloves are should be noted that the time to brea different for different glove manufact	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.			
Body protection		e body should be selected based on the task ed and should be approved by a specialist			
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Section 8. Exposure controls and personal protection

Respiratory protection	 selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a
	respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	1	Liquid.
Colour	:	Blue.
Odour	:	Not available.
Odour threshold	:	Not available.
рН	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not applicable.
Lower and upper explosive (flammable) limits	:	Not available.
Vapour pressure	:	Not available.
Vapour density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Partition coefficient: n- octanol/water	1	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Not available.
Flow time (ISO 2431)	:	Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.					
Chemical stability	: The product is stable.					
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.					
Conditions to avoid	: Avoid high temperatures. Keep away from heat and direct sunlight.					
Incompatible materials	Reactive or incompatible with the following materials: oxidising materials.					
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.					
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Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
glycerol	LD50 Oral	Rat	12600 mg/kg	-
sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	

Conclusion/Summary : Not available. Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	-	250 ug	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Skin - Mild irritant	Guinea pig	-	24 hours 25	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 50	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 25	-
				mg	

Conclusion/Summary					
Skin	: Not available.				
Eyes	: Not available.				
Respiratory	: Not available.				
Sensitisation					
Conclusion/Summary					
Skin	: Not available.				
Respiratory	: Not available.				
Mutagenicity					
Conclusion/Summary	: Not available.				
Carcinogenicity					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
Conclusion/Summary	: Not available.				
Teratogenicity					
Conclusion/Summary	: Not available.				
Specific target organ toxicity (single exposure)					

Name		Route of exposure	Target organs
sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes : Routes of entry anticipated: Oral, Dermal, Inhalation.

of exposure

Potential acute health effects

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Section 11. Toxicological information

Eve exitent		
Eye contact	1	Causes serious eye damage.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	1	Harmful in contact with skin. Causes skin irritation.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the phy	<u>ysic</u>	al, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain watering redness
Inhalation	:	No specific data.
Skin contact	:	Adverse symptoms may include the following: pain or irritation redness blistering may occur
		Adverse symptoms may include the following:
Ingestion	:	stomach pains
		stomach pains
Delayed and immediate effect	<u>cts</u>	stomach pains
Delayed and immediate effect Short term exposure Potential immediate	cts :	stomach pains as well as chronic effects from short and long-term exposure
Delayed and immediate effect Short term exposure Potential immediate effects	cts :	stomach pains as well as chronic effects from short and long-term exposure Not available.
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects	:	stomach pains as well as chronic effects from short and long-term exposure Not available.
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Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential delayed effects Potential chronic health eff Not available. General	<u>cts</u> : : : : : : : : : :	stomach pains as well as chronic effects from short and long-term exposure Not available. Not available. Not available. S Not available. S No known significant effects or critical hazards.
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential immediate effects Potential delayed effects Potential delayed effects Potential chronic health effects Not available. General Carcinogenicity	<u>cts</u> : : : : : : : : : : :	stomach pains as well as chronic effects from short and long-term exposure Not available. Not available. Not available. S Not available. S No known significant effects or critical hazards. No known significant effects or critical hazards.
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential delayed effects Potential delayed effects Potential chronic health eff Not available. General Carcinogenicity Mutagenicity	<u>cts</u> : : : : : : : : : : : : : : : : : : :	stomach pains as well as chronic effects from short and long-term exposure Not available. Not available. Not available. S Not available. S No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Western-Ready™ Protein Sample Loading Buffer (5X) glycerol sodium dodecyl sulphate	7334.3 12600 1288	N/A	N/A	N/A N/A N/A	N/A N/A N/A

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Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
sodium dodecyl sulphate	Acute EC50 1200 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 900 µg/l Marine water	Crustaceans - Artemia salina - Adult	48 hours
	Acute LC50 1400 µg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
	Acute LC50 590 µg/l Fresh water	Fish - Cirrhinus mrigala - Larvae	96 hours
	Chronic NOEC 1.25 mg/l Marine water	Algae - Ulva fasciata - Zoea	96 hours
	Chronic NOEC 1 mg/I Fresh water	Crustaceans - Pseudosida ramosa - Neonate	21 days
	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC >1357 µg/l Fresh water	Fish - Pimephales promelas	42 days

Conclusion/Summary

: Not available.

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
sodium dodecyl sulphate	OECD 301B Ready Biodegradability - CO2 Evolution Test	95 % - Readily - 28 days	20 mg/l	Activated sludge
Conclusion/Summary	: Not available.		·	

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
sodium dodecyl sulphate	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
0,1	-1.76	-	low
sodium dodecyl sulphate	-2.03	71	low

Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods The generation of waste should be avoided or minimised wherever possible. 2 Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and

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Section 13. Disposal considerations

its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

•				
	ADG	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

Australia inventory (AICS) : All components are listed or exempted.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

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Section 16. Any other relevant information

<u>History</u>	
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Prepared by	: Sphera Solutions
Key to abbreviations	: ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SUSMP = Standard Uniform Schedule of Medicine and Poisons UN = United Nations

Procedure used to derive the classification

Classification	Justification
	Calculation method Calculation method Calculation method

 References
 : Work Health and Safety Regulations 2011, as ammended

 Preparation of Safety Data Sheets for Hazardous Chemicals, Code of Practice, Safe

 Work Australia

 Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG),

 National Transport Commission

V Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.