

## SAFETY DATA SHEET

Date prepared: 06 February 2017

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### Section 1 Identification

Product 2X loading buffer

Manufacturer GeneWorks  
28 Dalglish Street  
Thebarton, SA 5025  
Phone: 08 8159 6250  
Fax: 08 8159 6251  
www.geneworks.com.au

For emergency Free call (24/7): 1800 448 465

\* For laboratory use only. Not for drug, food or household use.

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### Section 2 Hazard(s) Identification

This substance or mixture has **not** been classified as hazardous according to the Globally Harmonised System (GHS) of Classification and Labeling of chemicals.

Signal word	None required
Pictograms	None required
Target organs	None known
GHS classification	None required
Hazard statement	None required
Precautionary statement	None required

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### Section 3 Composition and information on ingredients

Chemical Name	CAS #	%
Water	7732-18-5	69
Glycerol	56-81-5	30
Bromophenol Blue	115-39-9	< 0.3
Xylene cyanol	2650-17-1	< 0.3

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### Section 4 First-aid measures

Ingestion: May be harmful if swallowed. Rinse mouth with water. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. If discomfort persists, get medical attention.

Inhalation: May be harmful if inhaled. Remove to fresh air. If not breathing, give artificial respiration. If breathing difficult or discomfort occurs and persists, get medical attention.

Eye Contact: May cause eye irritation. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation continues.

Skin contact: Wash with soap and water. Cold water may be used. Get medical attention if irritation develops.

Note to Medical Doctor: 2X Loading Buffer is expected to have low acute oral toxicity and may produce skin and eye irritation. Treatment is controlled removal of exposure followed by symptomatic and supportive care.

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## **Section 5 Fire Fighting Measures**

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam or dry chemical.

Specific Hazards: In fire conditions, water may evaporate from this solution which may cause the release of carbon oxides.

Protective equipment and precautions for fire fighters: In fire conditions, wear self-contained breathing apparatus (NIOSH/MSHA-approved or equivalent) if necessary. Keep containers cool with water spray.

Hazchem code: .27

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## **Section 6 Accidental Release Measures**

Personal Precautions: Evacuate personnel to safe area. Use proper protective equipment as indicated in Section 8.

Environmental Precautions: Dilute with plenty of water. Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of in accordance with appropriate local, state/provincial and federal/national regulations for inert, nuisance waste material.

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## **Section 7 Handling and Storage**

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Avoid ingestion. Wear protective gloves and eye protection and wash hands thoroughly after handling. Keep vial closed to prevent evaporation or contamination of vial contents.

Conditions for Safe Storage: Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

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## **Section 8 Exposure controls and personal protection**

Exposure limits: Glycerol mist: TWA 10mg/m<sup>3</sup> (inhalable particulate) ACGIH, 1996  
TWA 10mg/m<sup>3</sup> (total); 5mg/m<sup>3</sup> (respirable) OSHA

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility, a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, lab coat or apron, appropriate protective gloves.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures.

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## **Section 9 Physical and Chemical Properties**

Appearance	Form: Liquid Colour: Opaque, dark blue
Odor	No odor
Odor threshold	Data not available
pH	Data no available
Melting/freezing point	Data not available
Boiling point	Data not available
Flash point	Not applicable
Evaporation rate (water=1)	Data not available
Flammability (solid/gas)	Data not available
Explosion limits	Not applicable
Vapor pressure (mm Hg)	Data not available
Vapor density (Air=1)	Data not available
Relative density	Data not available
Solubility	Fully miscible in water
Partition coefficient	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	Data not available

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## **Section 10 Stability & Reactivity**

Reactivity	No data available
Chemical Stability	Stable
Hazardous polymerization	Will not occur
Conditions to avoid	No further relevant information available
Incompatible materials	No further relevant information available
Hazardous decomposition products	None

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## **Section 11 Toxicological Information**

Acute toxicity	Data not available
Skin corrosion/irritation	Data not available
Serious eye damage/irritation	Data not available
Respiratory or skin sensitisation	Data not available
Germ cell mutagenicity	Data not available
Carcinogenity IARC:	No component of product is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	Data not available
STOT-single exposure	Data not available
STOT-repeated exposure	Data not available
Aspiration hazard	Data not available

### Potential health effects

Inhalation	No data available for the formulation.
Ingestion	No data available for the formulation. Glycerol: Oral LD50=12.6 g/kg (rat) RTECS 1985-6
Skin Contact	No data available for the formulation. Glycerol: Mild irritant (rabbit) RTECS 1985-6
Eyes Contact	No data available for the formulation. Glycerol: Mild irritant (rabbit). RTECS 1985-6.
Signs and symptoms of exposure	Specific data is not available, exercise appropriate procedures to minimize potential hazards. Ingestion of large doses of glycerol may produce kidney failure, hemolysis, convulsions, paralysis.

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### **Section 12 Ecological Information**

Ecotoxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB assessment	No data available

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### **Section 13 Disposal Considerations**

Mop up liquid with paper towels. Dispose of in accordance with appropriate local, state/provincial and federal/national regulations. Avoid contact of material with skin or eyes. Use adequate ventilation. For contaminated packaging dispose of as unused product.

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### **Section 14 Transport Information**

UN Number	Not applicable
UN proper shipping name	ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA-DGR: Not dangerous goods
Transport hazard class	Not applicable
Packaging group	Not applicable
Environmental hazards	ADR/RID: no IMDG Marine pollutant: no IATA-DGR: no
Special precautions for user	No data available

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### **Section 15 Regulatory information**

Standard for the Uniform Scheduling of Medicines and Poisons  
No data available

Carcinogen classification under WHS Regulation 2011, Schedule 10  
Not listed

#### Notification status

DSL: All parts are listed on the Canadian DSL.  
TSCA: All parts are listed on the American TSCA.

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**Section 16 Additional Information**

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations and completeness of information from all sources to assure proper use of these materials and the safety and health of employees.

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