Material Safety Data Sheet

SECTION 1. Identification

1.1 Product identifier	STJ22509
1.2. Relevant identified uses of the substance or mixture and uses advised against	This product is composed of antibody in aqueous buffer solution, intended for the purposes of scientific research use only. It is not intended for diagnostic or other medical uses. This product contains no hazardous components, or the concentration of all chemical constituents is below the regulatory threshold limits described by European Directive 91/155/EEC, 93/112/EC and (EC) 1272/2008 (CLP).
1.3. Details of the supplier of the safety data sheet	St John's Laboratory Ltd Knowledge Dock Business Centre University Way London E16 2RD, UK Tel: 0208 223 3081
1.4. Emergency telephone number	UK - Call 111 if you urgently need medical assistance or advice if in a non-life-threatening situation. 111 is available 24 hours a day, 365 days a year. USA – Emergency services – Dial 911 EU – Emergency services – Dial 112 ROW – Please seek assistance from local country services.

SECTION 2. Hazards Identification

2.1 Classification of substance or mixture
Product definition:
Mixture

Classification according to Reg (EC) No. 1272/2008
Not a hazardous substance or mixture according to directives 67/548/EEC or 1999/45/EC. OSHA Hazard Communication Standard 29CFR1910:1200 classifies this product as non-hazardous.

2.2. Label elements
The product is not required to be labelled according to EC directives. Precautionary statements (EU) 28 1272/2008, wear appropriate PPE, gloves and protective clothing.

2.3. Other hazards
Physical/chemical: NA
Human health: NA

SECTION 3. Composition/information on ingredients

3.1 Substances
NA

3.2 Mixtures

Name	EC#	CAS#	Amount
Glycerol	200-289-5	56-81-5	50%
Sodium Azide	247-852-1	26628-22-8	<0.1%

According to European Directive 91/155/EEC and regulations (EC) 1272/2008 (CLP) Sodium Azide is non-hazardous when concentration < 0.1%.

SECTION 4. First Aid Measures

4.1. Description of first aid measures

Eye Exposure	In case of contact with eyes, immediately flush eyes with water for at least 15 minutes. Seek medical attention.
Ingestion	If swallowed and person is conscious, rinse mouth with water. Seek medical attention.
Inhalation	If inhaled, move to fresh air. If breathing difficulties occur, seek medical attention.
Skin Exposure	In case of contact, wash skin with soap and water.

4.2. Most important symptoms and effects, both acute and delayed
Not applicable.

4.3. Indication of any immediate medical attention and special treatment needed
Not applicable.

SECTION 5. Fire Fighting Measures

5.1. Extinguishing media	Water spray, dry chemical, foam or carbon dioxide.
5.2. Special hazards arising from the substance or mixture	No data available.
5.3. Advice for firefighters	Wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.
5.4 Further information	No data available.

SECTION 6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures	Maintain adequate ventilation, eye wash and quick drench facilities in work area. Wear a lab coat, chemical resistant gloves and chemical safety.

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6.2. Environmental precautions	Avoid dispersal of spilt material and runoff contact with soil. Prevent product from entering drains.
6.3. Methods and material for containment and cleaning up	Absorb liquid with an absorbent material. Transfer contaminated absorbent to a chemical waste container for disposal.
6.4. Reference to other sections	See Section 13.

SECTION 7. Handling and Storage

7.1. Precautions for safe handling	Avoid inhalation and contact with eyes and skin. Avoid prolonged or repeated exposure.
7.2. Conditions for safe storage, including any incompatibilities	Store according to instructions on the product label and data sheet.
7.3. Specific end use(s)	No other specific uses are intended. These products are for research purposes only and must not be used in diagnostic or other medical purposes.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Name	Occupational exposure limits (EH40/2005 WEL, UK)
Glycerol	TWA (8 h): 10 mg/m^3, Form: Mist
Sodium Azide	TWA (8 h): 0.1 mg/m^3 STEL (15 min): 0.3 mg/m^3

8.2. Exposure controls

Engineering Controls	Practice good safety and industrial hygiene, ensuring PPE is worn prior to handling. Wash hands after handling.
Eye/face protection	Avoid contact with the eyes, and wear safety glasses or goggles with side shields conforming to EN 166 (EU).
Skin protection - hands	Avoid contact with skin and mucous membranes. Avoid prolonged or repeated contact with skin, and wear gloves which conform to EN374 (EU). Gloves should be of non-reactive material such as latex, butyl rubber, polyvinyl chloride, etc. The use of gloves should take into account other chemicals which are being handled, as well as physical properties, such as puncture protection, dexterity and thermal protection.
Skin protection - other	Lab coat should be worn to protect other bodily areas, as well as footwear which fully covers the feet.
Respiratory protection	Under normal conditions of use a respirator is not required. Should a respirator be required the user should be properly trained to ensure proper fitting.
Thermal hazards	NA
Environmental exposure controls	Comply with local environmental regulations. Where necessary this may include the use of cases, fume scrubbers, filters or engineering modifications to equipment to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Liquid at room temperature.
Colour	Colourless to yellow
Odour	Odourless.
Melting/Freezing Point	Data not available.
Initial boiling point & boiling range	Data not available.
Flammability	Data not available.
Lower and upper explosion limit	Data not available.
Flash point	Data not available.
Auto-ignition temperature	Data not available.
Decomposition temperature	Data not available.
pH	7.4 – 7.8
Kinematic viscosity	Data not available.
Solubility	Data not available.
Partition coefficient (n-octanol/water)	Data not available.
Vapour pressure	Data not available.
Relative density	Data not available.
Relative vapour density	Data not available.
Particle characteristics	Data not available.

9.2. Other information
Not available

SECTION 10. Stability and reactivity

10.1. Reactivity
No information available.

10.2. Chemical stability
Product is stable under normal operating conditions, and when used according to the data sheet.

10.3. Possibility of hazardous reactions
No known reactions when used as described.

10.4. Conditions to avoid
Extreme temperatures and direct sunlight.

10.5. Incompatible materials
No information available.

10.6. Hazardous decomposition products
None under normal use conditions.

SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
This product is for experimental/research uses only. It has not been completely analysed, and all of the hazards may not be known.

Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Glycerol	= 12600 mg/kg (Rat)	> 10g/kg (Rabbit)	> 570 mg/m^3 (Rat) 1 h
Sodium Azide	27 mg/kg (Rat)	20 mg/kg (Rabbit)	0.054-0.52 mg/L (dust)

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Skin corrosion/irritation	May cause skin irritation.
Serious eye damage/eye irritation	May cause eye irritation.
Respiratory or skin sensitisation	No data available.
Germ cell mutagenicity	No data available.
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probably, possible or a confirmed human carcinogen by IARC.
Reproductive toxicity	No data available.
STOT – single exposure	No data available.
STOT – repeated exposure	No data available.
Aspiration hazard	No data available.
Additional information	RTECS: Not available. This product is not subject to OSHA classification.

11.2. Information on other hazards
No data available.

SECTION 12. Ecological information

12.1. Toxicity

Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Glycerol	-	LC50 51 – 57 mL/L (Oncorhynchus mykiss) 96 h	EC50 500 mg/L (Daphnia magna) 24 h
Sodium Azide	EC50 0.35 mg/L 96 h	LC50 0.7-5.5 mg/L (Oncorhynchus mykiss) 96 h	LC50 0.4-6.4 mg/L, 4.2 mg/L (Dpahnia pulex) 48 h

12.2. Persistence and degradability
No data available.

12.3. Bioaccumulative potential
No data available.

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
No data available.

12.6. Endocrine disrupting properties
No data available.

12.7. Other adverse effects
No data available.

SECTION 13. Disposal considerations

13.1. Waste treatment methods
Product
Dispose of in accordance with local laws and national/federal regulations. Smaller quantities may be disposed of with solid waste.

Packaging
Contaminated packaging should be disposed of in the same way as unused product.

SECTION 14. Transport information

14.1. UN number or ID number, groups and classes

Chemical Inventory Status	
DOT	Not regulated
ADR/RID	Considered non-hazardous for transport.
IMDG	Considered non-hazardous for transport.
IATA	Considered non-hazardous for transport.
IATA-DGR	Considered non-hazardous for transport.

14.6. Special precautions for user
Transport within user's premises: always transport within closed containers which are upright and secure. Users should be trained in the event of an accident of spillage.

14.7. Maritime transport in bulk according to IMO instruments
Not applicable.

SECTION 15. Regulatory information

This safety data sheet conforms to regulation (EC) No. 1907/2006 (REACH), Annex II.

15.1. Safety, health and environmental regulations/legislation specific for the substance or
Mixture
No data available.

15.2. Chemical safety assessment
No chemical safety assessment was carried out for this product.

SECTION 16. Other information

The products referenced in this sheet are sold with intention for research use only by personnel familiar with chemicals and trained professionals with good laboratory practices in science research. No other use is intended, and any other use may involve substantive hazards.

All information is believed to be correct at the time of writing, does not purport to be all inclusive and shall be used only as guide for experienced personnel. Users should carry out their own investigation to determine the suitability of the information for their purposes. In no way shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising from using the above information.

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