

# SAFETY DATA SHEET



mAb-Glyco-Chip Reagent Pack 2, Part Number G4240-64027

## Section 1. Identification

**Product identifier** : mAb-Glyco-Chip Reagent Pack 2, Part Number G4240-64027  
**Part No. (Chemical Kit)** : G4240-64027  
**Part No.** : System Conditioning Reagent 5972-3640  
 Glycan Standards 5972-3637

### Relevant identified uses of the substance or mixture and uses advised against

Analytical reagent.

System Conditioning Reagent 1 mg  
 Glycan Standards 0.0000175 mg

**Supplier/Manufacturer** : Agilent Technologies Australia Pty Ltd  
 679 Springvale Road  
 Mulgrave  
 Victoria 3170, Australia  
 1800 802 402

**Emergency telephone number (with hours of operation)** : CHEMTREC®: (61)-290372994

## Section 2. Hazard(s) identification

### Classification of the substance or mixture

Not classified.

Glycan Standards Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 100%

Glycan Standards Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 100%

### GHS label elements

**Signal word** : System Conditioning Reagent Glycan Standards No signal word.

**Hazard statements** : System Conditioning Reagent Glycan Standards No known significant effects or critical hazards.  
 Glycan Standards No known significant effects or critical hazards.

### Precautionary statements

**Prevention** : System Conditioning Reagent Glycan Standards Not applicable.

**Response** : System Conditioning Reagent Glycan Standards Not applicable.

**Storage** : System Conditioning Reagent Glycan Standards Not applicable.

**Disposal** : System Conditioning Reagent Glycan Standards Not applicable.

## Section 2. Hazard(s) identification

**Supplemental label elements** : System Conditioning Reagent Not applicable.  
Glycan Standards Not applicable.

**Other hazards which do not result in classification** : System Conditioning Reagent May form explosible dust-air mixture if dispersed.  
Glycan Standards None known.

## Section 3. Composition and ingredient information

**Substance/mixture** : System Conditioning Reagent Substance  
Glycan Standards Mixture

### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
System Conditioning Reagent Aldolase, fructose diphosphate	100	9024-52-6

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 first aid measures

**Eye contact** : System Conditioning Reagent Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.  
Glycan Standards Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Inhalation** : System Conditioning Reagent Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.  
Glycan Standards Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. 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** : System Conditioning Reagent Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.  
Glycan Standards Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Ingestion** : System Conditioning Reagent Wash out mouth with water. 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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.  
Glycan Standards Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the

## Section 4. First aid measures

exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: System Conditioning Reagent Glycan Standards	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes. No known significant effects or critical hazards.
<b>Inhalation</b>	: System Conditioning Reagent Glycan Standards	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. No known significant effects or critical hazards.
<b>Skin contact</b>	: System Conditioning Reagent Glycan Standards	No known significant effects or critical hazards.
<b>Ingestion</b>	: System Conditioning Reagent Glycan Standards	No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: System Conditioning Reagent Glycan Standards	Adverse symptoms may include the following:  irritation redness No specific data.
<b>Inhalation</b>	: System Conditioning Reagent Glycan Standards	Adverse symptoms may include the following:  respiratory tract irritation coughing No specific data.
<b>Skin contact</b>	: System Conditioning Reagent Glycan Standards	No specific data.
<b>Ingestion</b>	: System Conditioning Reagent Glycan Standards	No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

<b>Notes to physician</b>	: System Conditioning Reagent Glycan Standards	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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.
<b>Specific treatments</b>	: System Conditioning Reagent Glycan Standards	No specific treatment.
<b>Protection of first-aiders</b>	: System Conditioning Reagent Glycan Standards	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	: System Conditioning Reagent Glycan Standards	Use dry chemical powder.  Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: System Conditioning Reagent Glycan Standards	Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture. None known.
<b>Specific hazards arising from the chemical</b>	: System Conditioning Reagent Glycan Standards	May form explosible dust-air mixture if dispersed.  No specific fire or explosion hazard.
<b>Hazardous thermal decomposition products</b>	: System Conditioning Reagent  Glycan Standards	Decomposition products may include the following materials: carbon dioxide carbon monoxide phosphorus oxides Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
<b>Special protective actions for fire-fighters</b>	: System Conditioning Reagent  Glycan Standards	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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. 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.
<b>Special protective equipment for fire-fighters</b>	: System Conditioning Reagent  Glycan Standards	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 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

<b>For non-emergency personnel</b>	: System Conditioning Reagent  Glycan Standards	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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment. 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. Put on appropriate personal protective equipment.
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## Section 6. Accidental release measures

**For emergency responders** : System Conditioning Reagent

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".  
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".

Glycan Standards

**Environmental precautions** : System Conditioning Reagent

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).

Glycan Standards

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 containment and cleaning up

**Methods for cleaning up** : System Conditioning Reagent

Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

Glycan Standards

Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : System Conditioning Reagent

Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.

Glycan Standards

Put on appropriate personal protective equipment (see Section 8).

**Advice on general occupational hygiene** : System Conditioning Reagent

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.

Glycan Standards

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

## Section 7. Handling and storage

before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** :  System Conditioning Reagent

Do not store above the following temperature: -20°C (-4°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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.

Glycan Standards

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. 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.

## Section 8. Exposure controls and personal protection

### Control parameters

#### Occupational exposure limits

None.

**Appropriate engineering controls** :  Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Environmental exposure controls** :  Emissions from ventilation or work process equipment should be checked to ensure they 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 measures

**Hygiene measures** :  Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** :  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: safety glasses with side-shields.

### Skin protection

**Hand protection** :  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.

**Body protection** :  Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.



## Section 8. Exposure controls and personal protection

- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : 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

### Appearance

<b>Physical state</b>	: System Conditioning Reagent	Solid. [Powder.]
	: Glycan Standards	Solid.
<b>Colour</b>	: System Conditioning Reagent	Not available.
	: Glycan Standards	Not available.
<b>Odour</b>	: System Conditioning Reagent	Not available.
	: Glycan Standards	Not available.
<b>Odour threshold</b>	: System Conditioning Reagent	Not available.
	: Glycan Standards	Not available.
<b>pH</b>	: System Conditioning Reagent	Not available.
	: Glycan Standards	Not available.
<b>Melting point</b>	: System Conditioning Reagent	Not available.
	: Glycan Standards	Not available.
<b>Boiling point</b>	: System Conditioning Reagent	Not available.
	: Glycan Standards	Not available.
<b>Flash point</b>	: System Conditioning Reagent	Not available.
	: Glycan Standards	Not available.
<b>Evaporation rate</b>	: System Conditioning Reagent	Not available.
	: Glycan Standards	Not available.
<b>Flammability (solid, gas)</b>	: System Conditioning Reagent	Not available.
	: Glycan Standards	Not available.
<b>Lower and upper explosive (flammable) limits</b>	: System Conditioning Reagent	Not available.
	: Glycan Standards	Not available.
<b>Vapour pressure</b>	: System Conditioning Reagent	Not available.
	: Glycan Standards	Not available.
<b>Vapour density</b>	: System Conditioning Reagent	Not available.
	: Glycan Standards	Not available.
<b>Relative density</b>	: System Conditioning Reagent	Not available.
	: Glycan Standards	Not available.
<b>Solubility</b>	: System Conditioning Reagent	Partially soluble in the following materials: cold water and hot water.
	: Glycan Standards	Partially soluble in the following materials: cold water and hot water.

## Section 9. Physical and chemical properties

<b>Partition coefficient: n-octanol/water</b>	: System Conditioning Reagent	Not available.
	Glycan Standards	Not available.
<b>Auto-ignition temperature</b>	: System Conditioning Reagent	Not available.
	Glycan Standards	Not available.
<b>Decomposition temperature</b>	: System Conditioning Reagent	Not available.
	Glycan Standards	Not available.
<b>Viscosity</b>	: System Conditioning Reagent	Not available.
	Glycan Standards	Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: System Conditioning Reagent	No specific test data related to reactivity available for this product or its ingredients.
	Glycan Standards	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: System Conditioning Reagent	The product is stable.
	Glycan Standards	The product is stable.
<b>Possibility of hazardous reactions</b>	: System Conditioning Reagent	Under normal conditions of storage and use, hazardous reactions will not occur.
	Glycan Standards	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: System Conditioning Reagent	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation. No specific data.
	Glycan Standards	
<b>Incompatible materials</b>	: System Conditioning Reagent	Reactive or incompatible with the following materials:
	Glycan Standards	oxidizing materials May react or be incompatible with oxidising materials.
<b>Hazardous decomposition products</b>	: System Conditioning Reagent	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Glycan Standards	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Not available.

#### Irritation/Corrosion

Not available.

#### Sensitisation



## Section 11. Toxicological information

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on likely routes of exposure** : System Conditioning Reagent Glycan Standards Not available.  
Glycan Standards Not available.

### Potential acute health effects

<b>Eye contact</b>	: System Conditioning Reagent Glycan Standards	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes. No known significant effects or critical hazards.
<b>Inhalation</b>	: System Conditioning Reagent Glycan Standards	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. No known significant effects or critical hazards.
<b>Skin contact</b>	: System Conditioning Reagent Glycan Standards	No known significant effects or critical hazards.
<b>Ingestion</b>	: System Conditioning Reagent Glycan Standards	No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Eye contact</b>	: System Conditioning Reagent Glycan Standards	Adverse symptoms may include the following: irritation redness No specific data.
<b>Inhalation</b>	: System Conditioning Reagent Glycan Standards	Adverse symptoms may include the following: respiratory tract irritation coughing No specific data.
<b>Skin contact</b>	: System Conditioning Reagent Glycan Standards	No specific data.
<b>Ingestion</b>	: System Conditioning Reagent Glycan Standards	No specific data.

## Section 11. Toxicological information

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

Not available.

<b>General</b>	: System Conditioning Reagent Glycan Standards	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: System Conditioning Reagent Glycan Standards	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: System Conditioning Reagent Glycan Standards	No known significant effects or critical hazards.
<b>Teratogenicity</b>	: System Conditioning Reagent Glycan Standards	No known significant effects or critical hazards.
<b>Developmental effects</b>	: System Conditioning Reagent Glycan Standards	No known significant effects or critical hazards.
<b>Fertility effects</b>	: System Conditioning Reagent Glycan Standards	No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

<b>Other information</b>	: System Conditioning Reagent Glycan Standards	Not available. Not available.
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## Section 12. Ecological information

### Toxicity

Not available.

### Persistence and degradability

Not available.

### Bioaccumulative potential

Not available.

### Mobility in soil

## Section 12. Ecological information

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**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. 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 non-recyclable 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 its container must be disposed of in a safe way. 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

### Regulatory information

**ADG / IMDG / IATA** : Not regulated as Dangerous Goods according to the ADG Code .

**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 to Annex II of Marpol and the IBC Code** : Not available.

## Section 15. Regulatory information

### Standard Uniform Schedule of Medicine and Poisons

Not regulated.

### Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

**Australia inventory (AICS)** : Not determined.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

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.

### International lists

#### National inventory

**Canada** : Not determined.

## Section 15. Regulatory information

<b>China</b>	: Not determined.
<b>Europe</b>	: Not determined.
<b>Japan</b>	: <input checked="" type="checkbox"/> <b>Japan inventory (ENCS)</b> : Not determined. <b>Japan inventory (ISHL)</b> : Not determined.
<b>Malaysia</b>	: Not determined.
<b>New Zealand</b>	: Not determined.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: Not determined.
<b>Turkey</b>	: <input checked="" type="checkbox"/> Not determined.
<b>United States</b>	: Not determined.

## Section 16. Any other relevant information

### History

<b>Date of issue/Date of revision</b>	: 26/02/2017
<b>Date of previous issue</b>	: 29/04/2015.
<b>Version</b>	: 4

<b>Key to abbreviations</b>	: ADG = Australian Dangerous Goods ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate 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) NOHSC = National Occupational Health and Safety Commission SUSMP = Standard Uniform Schedule of Medicine and Poisons UN = United Nations
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### Procedure used to derive the classification

Classification	Justification
Not classified.	

**References** : Not available.

Indicates information that has changed from previously issued version.

### Notice to reader

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