

Safety Data Sheet
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1. Chemical product and company identification

Product name : **Glucose forming activity assay kit**  
 Product code: 60211  
 Responsible company: Kikkoman Biochemifa Company  
 2-1-1, Nishi-shinbashi, Minato-ku,  
 Tokyo 105-0003, Japan  
 Information: Phone: +81-3-5521-5493  
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2. Hazards identification

Irritant

Irritating to eyes, respiratory system and skin.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing.

Contact of the substance resulting from handling may induce sensitization in sensitized individuals.

3. Composition/information on ingredients

Product name      Glucose forming activity assay kit  
 Description        Reagent mixture and liquid

Hazards identified with this product are those associated with the following ingredients.

<i>Ingredients</i>	<i>Formula or chemical name</i>	<i>CAS #</i>	<i>Remarks</i>
$\beta$ -glucosidase		9001-22-3	Enzyme protein. Does not contain the production microbe..
4-nitrophenyl- $\beta$ -D-maltoside	$C_{18}H_{25}NO_{13}$	56846-39-0	
Acetic acid	$C_2H_4O_2$	64-19-7	
Sodium carbonate	$Na_2CO_3$	497-19-8	
Sodium hydroxide	NaOH	1310-73-2	
Triton X-100	t-Octylphenoxy polyethoxyethanol	9002-93-1	

4. First aid measures

Skin contact	Wash skin with plenty of water. If symptoms occur, see a doctor.
Eye contact	Rinse eyes with plenty of water for at least 15 minutes and see an eye specialist. If symptoms occur, see a doctor.
Ingestion	Rinse mouth and throat thoroughly with water. Drink water. If symptoms occur, see a doctor.
Inhalation	Remove from exposure. If symptoms of irritation or sensitisation occur (shortness of breath, wheezing or laboured coughing), call a doctor.

5. Fire-fighting measures

Protection against fire and explosions	No special requirements.
Suitable fire extinguishing media	Water, foam.
Non-suitable media	None.
Special exposure hazards	None.

6. Accidental release measures

Spilled substance should be removed immediately. Take up by mechanical means, preferably by a vacuum

equipped with a high efficiency filter. Flush carefully with plenty of water. Avoid splashing and high-pressure washing. Ensure sufficient ventilation. Wash contaminated clothing.

**7. Handling and storage**

Ensure good ventilation of the room when handling this substance.  
Store at 2-8°C.

**8. Exposure controls/personal protection**

Recommended personal protective equipment (PPE)  
Respiratory protection                      Respirator with filter.  
Hand protection                                Impermeable gloves.  
Eye protection                                  Protective glasses or eye shield.

**9. Physical and chemical properties**

Appearance                                      Clear liquid.  
Odour                                                None.  
Other data                                         None relevant for safety.

**10. Stability and reactivity**

This substance is stable under normal conditions of use.  
Conditions to avoid                              None.  
Materials to avoid                                None.  
Hazardous decomposition products        None.

**11. Toxicological information**

No data available.

**12. Ecological information**

No data available.

**13. Disposal considerations**

No special disposal method required, except that in accordance with local authority regulations.

**14. Transport information**

UN number:	Not applicable.	Sea:	Not applicable.
Road/Rail:	Not applicable.	Air:	Not applicable.

**15. Regulatory information**

Labelling	Xn (harmful).
R-36	Irritating to eyes
S-26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

**16. Other information**

This product is intended for laboratory use. Not for human consumption.  
The information contained in this Material Safety Data Sheet, as of the issue date, is believed to be true and correct. However, this information is only intended as a guide, and any recommendations or suggestions are made without warranty or guarantee.

Since the conditions of use are beyond the control of our Company, it is the responsibility of the user to determine the conditions of safe use of this substance. The information in this sheet does not represent analytical specifications, for which please refer to our product specification.