

Safety Data Sheet

1. Chemical product and company identification

Product name : **Glucoamylase and α -glucosidase assay kit**
 Product code: 60212
 Responsible company: Kikkoman Biochemifa Company
 2-1-1, Nishi-shinbashi, Minato-ku,
 Tokyo 105-0003, Japan
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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 Glucoamylase and α -glucosidase 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>
β -glucosidase		9001-22-3	Enzyme protein. Does not contain the production microbe..
4-nitrophenyl- β -D-maltoside	$C_{18}H_{25}NO_{13}$	56846-39-0	
4-nitrophenyl α -D-glucopyranoside	$C_{12}H_{15}NO_8$	3767-28-0	
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-Octylphenoxyethoxyethanol	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.