Triplu^{TM} Luciferase Assay Reagent
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SDS No.1464F

TOYOBO

Safety Data Sheet

1 Chemical product and company identification

Identification of the product	MultiReporter Assay System -Triplu^{TM}- Triplu^{TM} Luciferase Assay Reagent
Product Code	MRA-301,301X5
SUPPLIER	
Name	TOYOBO Co., Ltd.
Address	Osaka Umeda Twin Towers South,1-13-1 Umeda Kita-ku, Osaka 530-0001, Japan
Department	Biotechnology Overseas Sales and Marketing Department
Emergency Telephone No.	+81-6-6348-3846
Fax No.	+81-6-6348-3833
Recommended uses and restrictions on use	Detection of luciferase activity on MultiReporter Assay System -Triplu^{TM}-. Research purposes only. It is not intended for food, drug, household, agricultural or cosmetic use.

2 Hazards identification

Important hazards	
Physical and chemical hazards	
Adverse effects on human health	Few adverse human health effects are anticipated.
Adverse effects on the environment	Not available
GHS classification	
Hazard class and category	
Physical Hazards	Classification not possible
Health Hazards	Classification not possible
Environmental Hazards	Classification not possible

3 Composition/information on ingredients

Chemical product (a substance or a mixture): Mixture (aqueous solution)

Chemical Nature

Main components	CAS No. (EC No.)
Adenosine 5'-Triphosphate Disodium Salt	51963-61-2
D-luciferin	115144-35-9
Dithiothreitol	3483-12-3
Polyoxyethylene hexadecyl ether	9004-95-9
Magnesium Sulfate	10034-99-8

Components Contributing to the Hazard

Common Chemical Name (or Generic Name)	Polyoxyethylene hexadecyl ether
Synonyms	Brij 58
Percentage	0.01～0.5%
CAS No.	9004-95-9

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4 First-aid measures

Inhalation	In case of irritation by inhaling this product, move affected person to fresh air. Call a POISON CENTER or doctor if you feel unwell.
Skin contact	Wash with plenty of clean water, immediately. If skin irritation occurs: Get medical advice/attention.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice / attention.
Ingestion	Rinse mouth. Call a POISON CENTER or doctor/physician if you fell unwell. Do not induce to vomiting.

5 Fire-fighting measures

Extinguishing media	Water, Powder, Carbon Dioxide, Foam, Dry sand
Precautions for fire-fighters	Fire-fighting should be done from the windward side of fire area. Fire-fighters should wear proper protective equipment in case of large scale fire.

6 Accidental release measures

Personal precautions	Wear protective gear to avoid eye/skin contact and inhalation.
Environmental precautions	Avoid disposition to the environment.
Methods for cleaning up	Use cloth, paper or anything similar to soak up the solution leaking out of the container. Take up under vacuum using dust collecting filter.

7 Handling and storage

Handling	
Technical measures	Wear protective equipment and avoid contact with eyes and skin.
Precautions	Wear protective equipment and avoid contact with eyes and skin. Handle the reagent not to generate aerosol or dust.
Hygene measures	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Storage	
Technical measures	Keep tightly closed and store at about -80℃.
Packaging Materials	Store in the original package

8 Exposure controls and personal protection

Engineering controls	Set up good ventilation and exhaust system in the work area. Provide shower and vanity unit nearby.
Personal protective equipment	
Respiratory protection	Wear a dust mask.
Hand protection	Chemical safety gloves.
Eye protection	Chemical safety goggles.
Skin and body protection	Wear lab coat when needed.

9 Physical and chemical properties

Physical State	Liquid
Colour	Clear, yellowish solution
pH	6.0～9.0
Flash point	No flammability due to aqueous solution
Explosion limit	Not explosive
Density	Approx. 1.0
Solubility	Soluble in water

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10 Stability and reactivity

Chemical stability and hazardous reactions	Stable under normal handling.
Conditions to Avoid	
Incompatible materials	Strong oxidizers
Hazardous decomposition products	carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxide

11 Toxicological information

Acute toxicity	not available
Local Effects	May cause eye and skin irritation.
Toxicological information on the component of this product	
	Polyoxyethylene hexadecyl ether
Acute toxicity	
Acute toxicity: Oral	Rat LD50: 2500mg/kg
Skin corrosion/Irritation	not available
Eye damage/irritation	not available
Carcinogenicity	not available
Specific target organ toxicity-single exposure	not available
Specific target organ toxicity-repeated exposure	not available

12 Ecological information

Ecotoxicity	Not available
Persistence and degradability	Not available
Bioaccumulative potential	Not available
Mobility in soil	Mobile in water

13 Disposal considerations

Waste from residues	Dispose of in accordance with all applicable local and national laws and regulations.
Contaminated container and Contaminated packaging	Dispose of in accordance with all applicable local and national laws and regulations.

14 Transport information

International Regulations	
UN number	Not classified
Specific Precautions	Follow all of the laws and regulations in your respective country. To prevent packages from breaking, handle with care.

15 REGULATORY INFORMATION

Follow all of the laws and regulations in your country.

16 OTHER INFORMATION

Notice	Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. The information in this SDS, to the best of our knowledge, is accurate and correct. However, TOYOBO makes no warranty and assumes no liability whatsoever in connection with any use of this information. The information shall not be taken as being all inclusive and is to be used only a guide. All materials and mixtures may be present unknown hazards and should be used with caution. The SDS is subject to revision as new information becomes available.