



SAFETY DATA SHEET

1. Identification of the substance/mixture and of the company/undertaking

Identification of the substance/preparation

Product code 71009
Product name Dynabeads® EPEC/VTEC O111

Company/Undertaking Identification

Life Technologies
5791 Van Allen Way
PO Box 6482
Carlsbad, CA 92008
+1 760 603 7200

Life Technologies Japan Ltd.
Sumitomo Fudosan Mita Twin Bldg. East Wing
4-2-8 Shibaura, Minato-ku
Tokyo 108-0023
Japan

TEL +81-3-6832-9300

24 hour Emergency Response:

866-536-0631
301-431-8585
Outside of the U.S. ++1-301-431-8585

For use in food and environmental testing only.

2. Hazards identification

GHS - Classification

Signal word
not hazardous

Health hazard
not hazardous

Physical hazards
not hazardous

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**Principle Routes of Exposure/
Potential Health effects**

Eyes May cause eye irritation with susceptible persons.
Skin May cause skin irritation and/or dermatitis
Inhalation May cause irritation of respiratory tract.
Ingestion May be harmful if swallowed.

Specific effects

Carcinogenic effects Not applicable
Mutagenic effects Not applicable
Reproductive toxicity Not applicable
Sensitisation Not applicable

3. Composition/information on ingredients

Chemical Name	CAS-No.	Weight percent
Water	7732-18-5	60-100
BSA standard	NOT FOUND	0.1-1.0
Sodium Phosphate Buffer	None	<0.1
Sodium azide	26628-22-8	<0.1

The product contains no substances which at their given concentration, are considered to be hazardous to health. Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. We recommend handling all chemicals with caution.

4. FIRST AID MEASURES

Skin contact Rinse with plenty of water. If symptoms arise, call a physician.
Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
Inhalation Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.
Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Water spray. Carbon dioxide (CO2). Foam. Dry powder. Dry chemical. Alcohol-resistant foam. The product is not flammable.
Special protective equipment for firefighters Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment.
Methods for cleaning up Soak up with inert absorbent material.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

See Section 12 for additional information.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Wear personal protective equipment.
Storage Keep tightly closed in a dry and cool place.

8. Exposure controls/personal protection

Exposure limits

Chemical Name	Japan REL - Ceiling Limits	Japan OEL (TWA)
Water 7732-18-5	None	None
BSA standard NOT FOUND	None	None
Sodium Phosphate Buffer None	None	None
Sodium azide 26628-22-8	None	None

Engineering measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.
Hand protection Impervious gloves.
Eye protection Safety glasses with side-shields
Skin and body protection Lightweight protective clothing.
Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Prevent product from entering drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form suspension
Appearance No information available
Odour No information available
Boiling Point/Range °C No data available °F No data available
Melting point/range °C No data available °F No data available
Flash point °C No data available °F No data available
Autoignition temperature °C No data available °F No data available
oxidising properties No information available
Water solubility soluble

10. STABILITY AND REACTIVITY

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Stability	Stable.
Materials to avoid	Sodium azide may react with lead and copper plumbing to form highly explosive metal azides.
Hazardous decomposition products	No information available
polymerisation	Hazardous polymerisation does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Water	> 90 mL/kg (Rat)	No data available	No data available
BSA standard	No data available	No data available	No data available
Sodium Phosphate Buffer	No data available	No data available	No data available
Sodium azide	= 27 mg/kg Oral LD50	No data available	No data available

Principle Routes of Exposure/ Potential Health effects

Eyes	May cause eye irritation with susceptible persons.
Skin	May cause skin irritation and/or dermatitis
Inhalation	May cause irritation of respiratory tract.
Ingestion	May be harmful if swallowed.
Carcinogenic effects	No information available
Mutagenic effects	No information available
Reproductive toxicity	No information available
Sensitisation	No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity effects	No information available.
Mobility	No information available.
Biodegradation	Inherently biodegradable.
Bioaccumulation	Does not bioaccumulate.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

IATA

Proper shipping name	Not classified as dangerous in the meaning of transport regulations.
Hazard class	None
Subsidiary Class	None
Packing group	None
UN-No	none

15. Regulatory information

Japan Inventories

Complies

Chemical Name	Japan ISHL	Japan PRTR	Japan PDSCL	Japan Fire Service Law
Water	Not Listed	Not Listed	Not listed	Not listed
BSA standard	Not Listed	Not Listed	Not listed	Not listed
Sodium Phosphate Buffer	Not Listed	Not Listed	Not listed	Not listed
Sodium azide	>1 Explosive substance	>=1%	Present (<=0.1% in mixtures) Poisonous Enforcement Order 1	Group 5 - Self-reactive materials II (listed under Heavy metal azides)

This product formulation has been reviewed against the following Japan regulations: Fire Service Law, Poisonous and Deleterious Substance Control Law, Pollutant Release and Transfer Register, Industrial Safety and Health Law, Chemical Substance Control Law, Prohibition of Chemical Weapons and Regulation Specific Chemicals, Water Pollution Control Law, Air Pollution Control Law, Narcotics and Psychotropic Control Act, Stimulants Control Act, and Cannabis Control Act

Reason for Revision (M)SDS sections updated

For use in food and environmental testing only.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

End of Safety Data Sheet

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