



SAFETY DATA SHEET

Issuing Date: 13- Dec- 2018

Version 1

ENDOTOXIN INDICATOR

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Endotoxin Indicator Vial

Material number EIV-0001, EIV-025

Manufacturer or supplier's details

Company FUJIFILM Wako Chemicals U.S.A. Corporation

Address 1600 Bellwood Road
Richmond, VA 23237
USA

Phone 1 804 271 7677

Fax 1 804 271 7791

E-mail wkuspyrostarinfo@fujifilm.com

Emergency telephone number 1 800 424 9300 (24 hours)

Recommended use of the chemical and restrictions

on use

Recommended use Endotoxin Indicator for Depyrogenation

2. HAZARDS IDENTIFICATION

GHS Classification

Combustible dust Category 1

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GHS label elements

Signal word	Warning
Hazard statements	May form combustible dust concentrations in air.
Precautionary statements	Prevention: Avoid dust formation.

Other hazards

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	Mixture
Hazardous components	
No hazardous ingredients	

4. FIRST AID MEASURES

If inhaled	No special precautions required.
In case of skin contact	After contact with skin, wash immediately with plenty of soap and water. If skin irritation persists, call a physician.
In case of eye contact	Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a specialist.
If swallowed	If swallowed, do not induce vomiting - seek medical advice. Immediately give large quantities of water to drink. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	No information available.

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Notes to physician

No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry powder
Water spray
Foam

Specific hazards during firefighting

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Heating or fire can release toxic gas.

Further information

Use water spray to cool unopened containers.

Special protective equipment for firefighters

In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.
Avoid dust formation.

Environmental precautions

Prevent product from entering drains.

Methods and materials for containment and cleaning up

Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
Non-sparking tools should be used.

7. HANDLING AND STORAGE

Advice on protection against fire and explosions

Avoid dust formation.

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	During processing, dust may form explosive mixture in air.
Advice on safe handling	Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Conditions for safe storage	No special storage conditions required

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Components with workplace control parameters	Contains no substances with occupational exposure limit values.
Engineering measures	It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.
Personal protective equipment	
Respiratory protection	Respirator must be worn if exposed to dust.
Hand protection	
Remarks	Wear suitable gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

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Eye protection	Safety glasses with side-shields
Skin and body protection	Wear suitable protective clothing and gloves.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	powder, (lyophilized)
Color	white
Odor	odorless
Odor Threshold	no data available.
pH	Not applicable
Melting point/range	no data available
Boiling point/Boiling range	no data available
Flash point	Not applicable
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Flammability (liquids)	no data available
Upper explosion limit	no data available
Lower explosion limit	no data available

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Vapor pressure	no data available
Relative vapor density	no data available
Relative density	no data available
Density	no data available
Water solubility	partly soluble
Partition coefficient n-octanol/water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity, dynamic	no data available
Viscosity, kinematic	no data available

10. STABILITY AND REACTIVITY

Conditions to avoid	breathing dust generated from the product
Material to avoid	None known
Hazardous decomposition products	N/A
Further Information	this material is stable under normal conditions and anticipated ambient storage and handling conditions.

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11. TOXICOLOGICAL INFORMATION

Carcinogenicity

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
Further information Remarks	No data is available on the product itself.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish no data available

Persistence and degradability

Biodegradability no data available

Bioaccumulative potential

Bioaccumulation no data available

Mobility in soil

Distribution among environmental no data available compartments

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Other adverse effects

Ozone-Depletion Potential

Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone Depleting Substances (40 CFR 82, Subpt. A, App A & B)
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information

no data available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT

Not dangerous goods

UN number

Not applicable

Proper shipping name

Not applicable

Transport hazard class

Not applicable

Packing group

Not applicable

TDG

Not dangerous goods

UN number

Not applicable

Proper shipping name

Not applicable

Transport hazard class

Not applicable

Packing group

Not applicable

IATA

Not dangerous goods

UN number

Not applicable

Proper shipping name

Not applicable

Transport hazard class

Not applicable

Packing group

Not applicable

Not dangerous goods

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IMDG

UN number	Not applicable
Proper shipping name	Not applicable
Transport hazard class	Not applicable
Packing group	Not applicable

ADR

Not dangerous goods

UN number	Not applicable
Proper shipping name	Not applicable
Transport hazard class	Not applicable
Packing group	Not applicable

RID

Not dangerous goods

UN number	Not applicable
Proper shipping name	Not applicable
Transport hazard class	Not applicable
Packing group	Not applicable

Special precautions for user	none
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

15. REGULATORY INFORMATION

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

EPCRA - Emergency Planning and Community Right-to-Know Act CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification

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SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMII Intermediate or Final VOC's (40 CFR 60.489).

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

Clean Water Act

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Components	CAS-No.
Lipopolysaccharide	93572-42-0

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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Canadian lists

No substances are subject to a Significant New Activity Notification.

NPRI

Canadian National Pollutant Release Inventory (NPRI): No component is listed on NPRI.

16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for

Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial

Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self Accelerating Decomposition

Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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Revision Date

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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