SAFETY DATA SHEET

According to JIS Z 7253:2019
Revision date 28-Mar-2024
Revision Number 1

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	LabAssay™ HDL-Cholesterol
Product Code	299-96501

Supplier
FUJIFILM Wako Pure Chemical Corporation
1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan
Phone: +81-6-6203-3741
Fax: +81-6-6203-2029

Emergency telephone number +81-6-6203-3741 / +81-3-3270-8571
Recommended uses For research use only
Restrictions on use Seek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification
Classification of the substance or mixture

Serious eye damage/eye irritation	Category 2B
Skin sensitization	Category 1
Reproductive Toxicity	Category 1B
Acute aquatic toxicity	Category 3
Chronic aquatic toxicity	Category 2

Pictograms

Signal word Danger

Hazard statements
H320 - Causes eye irritation
H360 - May damage fertility or the unborn child
H317 - May cause an allergic skin reaction
H402 - Harmful to aquatic life
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements-(Prevention)
- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- Wash face, hands and any exposed skin thoroughly after handling
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Contaminated work clothing should not be allowed out of the workplace
- Wear protective gloves
- Avoid release to the environment

Precautionary statements-(Response)
- IF exposed or concerned: Get medical advice/attention
- IF IN EYES: 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
- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation or rash occurs: Get medical advice/attention
- Wash contaminated clothing before reuse
- Collect spillage

Precautionary statements-(Storage)
- Store locked up

Precautionary statements-(Disposal)
- Dispose of contents/container to an approved waste disposal plant

Others
Other hazards Not available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Kit (Set of mixtures)

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Pretreatment	-	N/A	N/A	N/A	N/A-29-9651
Reacting Solution	-	N/A	N/A	N/A	N/A-29-9652
HDL-Cholesterol Standard	-	N/A	N/A	N/A	N/A-29-9653
Standard Diluent	-	N/A	N/A	N/A	N/A-29-9654

Note on ISHL No.: * in the table means announced chemical substances.

Substances Remarks: This Product includes the following componets. Methanol <0.40 %, Zinc chloride <0.040 %, Polyethylene glycol p-octylphenyl ether <0.030 %, Polyoxyethylene Lauryl Ether <3.0 %, Sodium azide <0.10 %, Disodium Edetate Dihydrate <9.0 %, Sodium Chloride 40 - 50 %, 2-Methyl-2H-isothiazol-3-one <0.70 %

Section 4: FIRST AID MEASURES

Inhalation
Remove to fresh air. If symptoms persist, call a physician.

Skin contact
Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Eye contact
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

Ingestion
Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Protection of first-aiders
Use personal protective equipment as required.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable extinguishing media
No information available

Specific hazards arising from the chemical product
Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Special extinguishing method
No information available

Special protective actions for fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

Environmental precautions

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminent and methods and materials for cleaning up

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

Recoverly, neutralization

No information available

Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling

Technical measures

Use with local exhaust ventilation.

Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

Safety handling precautions

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Storage

Safe storage conditions

Storage conditions Store away from sunlight in a cool (2-10 °C) well-ventilated dry place.

Safe packaging material No information available

Incompatible substances No information available

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and hand- and eye-wash facility. And display their position clearly.

Exposure limits

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Methanol 67-56-1	200ppm(260 mg/m^3)	200ppm	TWA 200ppm(260mg/m^3) STEL 250ppm
Sodium azide 26628-22-8	N/A	N/A	Ceiling: 0.29 mg/m^3 Sodium azide Ceiling: 0.11 ppm Hydrazoic acid vapor
Zinc chloride 7646-85-7	N/A	N/A	STEL: 2 mg/m^3 fume TWA: 1 mg/m^3 fume

Personal protective equipment

Respiratory protection	Protective mask
Hand protection	chemical protective gloves (JIS T 8116)
Eye protection	protective eyeglasses or chemical safety goggles (JIS T 8147)
Skin and body protection	Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.
If this product is classified as ”Chemical Substances Hazardous to Skin, etc.”, use appropriate protective equipment to them.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	
Appearance	Kit (Set of mixtures)
Odor	no data available
Melting point/freezing point	no data available
Boiling point, initial boiling point and boiling range	no data available
Flammability	no data available
Evaporation rate:	no data available
Flammability (solid, gas):	no data available
Upper/lower flammability or explosive limits	
Upper：	no data available
Lower：	no data available
Flash point	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
pH	no data available
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Solubilities	No data available
n-Octanol/water partition coefficient:(log Pow)	no data available
Vapour pressure	no data available
Specific Gravity / Relative density	no data available
Vapour density	no data available
Particle characteristics	no data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity	no data available
Chemical stability	Stable under recommended storage conditions.

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

No information available

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Sulfur oxides (SOx), Metal oxides

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Chloride	N/A	N/A	> 42 mg/L (Rat) 1 h
Polyoxyethylene Lauryl Ether	300 - 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	N/A
2-Methyl-2H-isothiazol-3-one	120 mg/kg (Rat)	200 mg/kg (Rabbit)	0.11 mg/L (Rat) 4 h

Methanol	1400 mg/kg (Human)	15800 mg/kg (Rabbit)	>31500 ppm (Rat) 4 h (vapor)
Sodium azide	45 mg/kg (Rat)	20 mg/kg (Rabbit)	0.054 - 0.52 mg/L (Rat) 4 h
Zinc chloride	1100 mg/kg (Rat)	173 mg/kg (Guinea pig)	=<1975 mg/m³ (Rat) 10 min

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Polyoxyethylene Lauryl Ether	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Methanol	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Sodium azide	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Zinc chloride	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Polyethylene glycol p-octylphenyl ether	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Polyoxyethylene Lauryl Ether	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Methanol	Based on the NITE GHS Classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Sodium azide	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Zinc chloride	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Polyethylene glycol p-octylphenyl ether	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
Polyoxyethylene Lauryl Ether	Based on the NITE GHS classification results.
Methanol	Based on the NITE GHS classification results.
Sodium azide	Based on the NITE GHS classification results.
Zinc chloride	Based on the NITE GHS classification results.
Polyethylene glycol p-octylphenyl ether	Based on the NITE GHS classification results.

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
Polyoxyethylene Lauryl Ether	Based on the NITE GHS classification results.
Methanol	Based on the NITE GHS classification results.
Sodium azide	Based on the NITE GHS classification results.
Zinc chloride	Based on the NITE GHS classification results.
Polyethylene glycol p-octylphenyl ether	Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
Polyoxyethylene Lauryl Ether	Based on the NITE GHS classification results.
Methanol	Based on the NITE GHS classification results.
Sodium azide	Based on the NITE GHS classification results.
Zinc chloride	Based on the NITE GHS classification results.
Polyethylene glycol p-octylphenyl ether	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
Polyoxyethylene Lauryl Ether	Based on the NITE GHS classification results.
Methanol	Based on the NITE GHS classification results.
Sodium azide	Based on the NITE GHS classification results.
Zinc chloride	Based on the NITE GHS classification results.
Polyethylene glycol p-octylphenyl ether	Based on the NITE GHS classification results.

Carcinogenicity

Chemical Name	Carcinogenicity source information

Polyoxyethylene Lauryl Ether	Based on the NITE GHS classification results.
Methanol	Based on the NITE GHS classification results.
Sodium azide	Based on the NITE GHS classification results.
Zinc chloride	Based on the NITE GHS classification results.
Polyethylene glycol p-octylphenyl ether	Based on the NITE GHS classification results.

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Polyoxyethylene Lauryl Ether	Based on the NITE GHS classification results.
Methanol	Based on the NITE GHS classification results.
Sodium azide	Based on the NITE GHS classification results.
Zinc chloride	Based on the NITE GHS classification results.
Polyethylene glycol p-octylphenyl ether	Based on the NITE GHS classification results.

STOT-single exposure

Chemical Name	STOT -single exposure- source information
Polyoxyethylene Lauryl Ether	Based on the NITE GHS classification results.
Methanol	Based on the NITE GHS classification results.
Sodium azide	Based on the NITE GHS classification results.
Zinc chloride	Based on the NITE GHS classification results.
Polyethylene glycol p-octylphenyl ether	Based on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information
Polyoxyethylene Lauryl Ether	Based on the NITE GHS classification results.
Methanol	Based on the NITE GHS classification results.
Sodium azide	Based on the NITE GHS classification results.
Zinc chloride	Based on the NITE GHS classification results.
Polyethylene glycol p-octylphenyl ether	Based on the NITE GHS classification results.

Aspiration hazard

Chemical Name	Aspiration Hazard source information
Polyoxyethylene Lauryl Ether	Based on the NITE GHS classification results.
Methanol	Based on the NITE GHS classification results.
Sodium azide	Based on the NITE GHS classification results.
Zinc chloride	Based on the NITE GHS classification results.
Polyethylene glycol p-octylphenyl ether	Based on the NITE GHS classification results.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium Chloride	*N/A*	*LC50 : Lepomis macrochirus 5560 - 6080 mg/L 96 h* *LC50 : Lepomis macrochirus 12946 mg/L 96 h* *LC50 : Pimephales promelas 6020 - 7070 mg/L 96 h* *LC50 : Pimephales promelas 7050 mg/L 96 h* *LC50 : Pimephales promelas 6420 - 6700 mg/L 96 h* *LC50 : Oncorhynchus mykiss 4747 - 7824 mg/L 96 h*	*EC50 : Daphnia magna 1000 mg/L 48 h* *EC50 : Daphnia magna 340.7 - 469.2 mg/L 48 h*
Polyoxyethylene Lauryl Ether	*ErC50 : Desmodesmus 0.237 mg/L 72 h*	*N/A*	*N/A*
2-Methyl-2H-isothiazol-3-one	*N/A*	*LC50 : Oncorhynchus mykiss 0.07 mg/L 96 h*	*EC50 : Daphinia magna 0.18 mg/L 48 h*
Methanol	*N/A*	*LC50 : Lepomis macrochirus 15400 mg/L 96 h*	*LC50 : Artemia 1340 mg/L 96 h*

Sodium azide	*ErC50 : Pseudokirchneriella subcapitata 348 µg/L 96 h*	*LC50 : Oncorhynchus mykiss 0.8 mg/L 96 h LC50 : Lepomis macrochirus 0.7 mg/L 96 h LC50 : Pimephales promelas 5.46 mg/L 96 h*	*N/A*
Zinc chloride	*EC50 : Nitzschia 0.065 mg Zn/L 72 h*	*N/A*	*EC50 : Daphnia magna 0.1 mg/L 48 h*
Polyethylene glycol p-octylphenyl ether	*N/A*	*LC50 : Lepomis macrochirus 3 mg/L 96 h*	*N/A*

Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information
Polyoxyethylene Lauryl Ether	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Methanol	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Sodium azide	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Zinc chloride	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Polyethylene glycol p-octylphenyl ether	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Persistence and degradability No information available
Bioaccumulative potential No information available
Mobility in soil No information available
Hazard to the ozone layer No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste from residues
Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated container and contaminated packaging
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

ADR/RID Not regulated
UN number -
Proper shipping name:
UN classfication
Subsidiary hazard class
Packing group
Marine pollutant Yes

IMDG Not regulated
UN number -
Proper shipping name:
UN classfication
Subsidiary hazard class
Packing group
Marine pollutant (Sea) Yes
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

IATA Not regulated
UN number -
Proper shipping name:

UN classfication
Subsidiary hazard class
Packing group
Environmentally Hazardous Substance Yes

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Not applicable
Poisonous and Deleterious Substances Control Law Not applicable
Industrial Safety and Health Act Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)
Notifiable Substances (Law Art.57-2)
Industrial Safety and Health Act (2024~) 【2024.4.1~】Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)
Regulations for the carriage and storage of dangerous goods in ship Not applicable
Civil Aeronautics Law Not applicable
Pollutant Release and Transfer Register Law (2023.4.1-) Class 1
Class 1 - No. 407,595

Pollution Release and Transfer Registry (~2023.3.31)

Class	Chemical Name in Regulation	(Metal Name)	Control number	Content Rate
Class 1	Poly(oxyethylene) alkyl ethers (alkyl C12-15)		407	<3.0
Class 1	Ethylenediaminetetraacetic acid and its potassium and sodium salts		595	<9.0

Industrial Safety and Health Law

Law Name	Chemical Name in Regulation	Weight %	
Notifiable Substances (Law Art.57-2)	Methanol	<0.40	Existing Law

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.
NITE: National Institute of Technology and Evaluation (JAPAN)
http://www.safe.nite.go.jp/japan/db.html
IATA dangerous Goods Regulations
RTECS:Registry of Toxic Effects of Chemical Substances
Japan Industrial Safety and Health Association GHS Model SDS
Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.
Chemical Dictionary, Kyouritsu Publishing Co., Ltd.
etc

Disclaimer
This SDS is according to JIS Z 7253: 2019. 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, 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.
GHS Classification is according to JIS Z 7252:2019. *JIS: Japanese Industrial Standards

End of Safety Data Sheet