Autophagy Ab Sampler Set Revised: 09/30/2016, 1/12



SAFETY DATA SHEET

1. Identification

Product identifier Autophagy Ab Sampler Set

Positive control for anti-LC3 antibody

Other means of identification

Product code 8485

Recommended use Research use only.

Recommended restrictions None known.

Manufacturer / Importer / Supplier / Distributor information

Manufacturer andMedical & Biological Laboratories (MBL) Co., Ltd.Supplier (Asia)4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, JapanTelephone number+81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)

Fax +81-52-238-1440 **E-mail** sds-support@mbl.co.jp

URL http://www.mbl.co.jp/e/index.html

Contact person SDS Support

Supplier MBL International Corporation

15A Constitution Way, Woburn, MA 01801, USA

Telephone number +1-800-200-5459, option 3

Fax +1-781-939-6963
E-mail tech@mblintl.com
URL http://www.mblintl.com/
Contact person Technical Service

2. Hazard(s) identification

Physical hazards Not classified.

Health hazardsSerious eye damage/eye irritationCategory 1Sensitization, skinCategory 1

OSHA hazard(s) Not classified.

Environmental hazards Hazardous to the aquatic environment, acute hazard Category 2

Hazardous to the aquatic environment, long-term hazard Category 2

Label elements

Hazard symbol







Signal word Danger

Hazard statement Causes serious eye damage. May cause an allergic skin reaction. Toxic to aquatic life with

long lasting effects.

Precautionary statement

Prevention Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face

protection. Avoid release to the environment.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Immediately call a poison center/doctor. IF ON

SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical

advice/attention. Call a poison center/doctor if you feel unwell. Wash contaminated clothing

Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national/international

regulations.

Hazard(s) not otherwise

classified (HNOC)

None.

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3. Composition/Information on ingredients

Mixtures

Chemical name	CAS number	%
Glycerol (Glycerin)	56-81-5	10
2-Mercaptoethanol	60-24-2	5
Sodium dodecyl sulphate	151-21-3	2

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation Move injured person into fresh air and keep person calm under observation. If breathing is

difficult, trained personnel should give oxygen. Get medical attention if any discomfort

continues.

Skin contact Take off immediately all contaminated clothing. Flush skin thoroughly with water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions.

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Eye contact

Remove any contact lenses and open eyelids wide apart. Continue rinsing. Get medical

attention immediately.

Rinse mouth thoroughly. Drink 1 or 2 glasses of water. Never give anything by mouth to an Ingestion

unconscious person. Only induce vomiting at the instruction of medical personnel. Get

Extreme irritation of eyes and mucous membranes, including burning and tearing. Dermatitis.

medical attention if any discomfort continues.

Most important symptoms/ effects, acute and delayed

Indication of immediate Treat symptomatically.

medical attention and special

treatment needed

General information First aid personnel must be aware of own risk during rescue.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Use fire-extinguishing media appropriate for surrounding materials.

None known.

the chemical

Specific hazards arising from Irritating and toxic gases or fumes may be released during a fire. Carbon oxides. Sulfur

and precautions for

firefighters

Special protective equipment Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. Selection of respiratory protection for fire-fighting: follow the general fire

precautions indicated in the workplace.

Fire-fighting equipment/

instructions

Use standard fire-fighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing. Avoid contact with eyes, skin, and clothing. For personal

protection, see Section 8 of the SDS.

Methods and materials for containment and cleaning up **Environmental precautions**

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste for proper disposal. After removal, flush contaminated area thoroughly with water.

Do not allow to enter drains, sewers or watercourses.

7. Handling and storage

Precautions for safe handling Use with adequate ventilation. Avoid contact with skin and eyes. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Store away from incompatible materials.

8. Exposure controls/personal protection

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Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

PEL	- / 0	
	5 mg/m3	Respirable fraction
	15 mg/m3	Total dust
Туре	Value	Form
TWA	10 mg/m3	Mist
re Level (WEEL) Guid	<u> </u>	
Туре	Value	Form
TWA	0.6 mg/m3	
	TWA re Level (WEEL) Guid Type	Type Value TWA 10 mg/m3 re Level (WEEL) Guides Type Value

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

US WEEL Guides: Skin designation

2-Mercaptoethanol (CAS 60-24-2) Can be absorbed through the skin.

Appropriate engineering controls

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors. Provide easy access to water supply and eye wash facilities.

0.2 ppm

Individual protection measures, such as personal protective equipment

Eye/face protection Wear approved safety glasses or goggles.

Skin protection

Hand protection Wear protective gloves. Nitrile or neoprene gloves are recommended. Be aware that the

liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be

recommended by the glove supplier.

Other Wear appropriate clothing to prevent repeated or prolonged skin contact.

respiratory protection. In case of inadequate ventilation or risk of inhalation of vapors, use

suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygieneConsiderations
Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid. Form Liquid. Color Blue.

Odor Rotten-egg like. Unpleasant odor.

Odor threshold
pHNot available.
Neutral.Melting point/freezing point
Initial boiling point andNot available.
Not available.

boiling range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits
Flammability limit Not available.

- lower (%)

Flammability limit Not available.

- upper (%)

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.Solubility(ies)Soluble in water.

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Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature Decomposition temperature

Not available. Not available. Not available.

10. Stability and reactivity

Reactivity The product is stable and non reactive under normal conditions of use, storage and

Chemical stability Stable at normal conditions.

Possibility of hazardous

reactions

Viscosity

None known.

Conditions to avoidContact with incompatible materials.

Incompatible materialsStrong oxidizing agents.Hazardous decompositionCarbon oxides. Sulfur oxides.

products

11. Toxicological information

Information on likely routes of exposure

Ingestion May cause discomfort if swallowed.

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation

hazard.

Skin contact May cause skin irritation. May cause eczema-like skin disorders (dermatitis).

Eye contact Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

Extreme irritation of eyes and mucous membranes, including burning and tearing. Dermatitis.

Information on toxicological effects

Acute toxicity May cause discomfort if swallowed.

Components		Species	Test Results	
2-Mercaptoethano	I (CAS 60-24-2)			
Acute				
Oral	LD50	Rat	244 mg/kg	
Dermal	LD50	Rabbit	150 mg/kg	
Inhalation	LC50	Rat	2 mg/L, 4 hours	
Sodium dodecyl su	ulphate (CAS 151-21-3)			
Acute				
Oral	LD50	Rat	1,288 mg/kg	

Skin corrosion/irritation Serious eye damage/eye May cause skin irritation.

Causes serious eye damage.

irritation

Respiratory sensitization No data available.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicityNo data available.CarcinogenicityNo data available.Reproductive toxicityNo data available.Specific target organ toxicityNo data available.

- single exposure

Specific target organ toxicity No data available.

- repeated exposure

Aspiration hazard No data available.

Chronic effects None known.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Components Species Test Results

Sodium dodecyl sulphate (CAS 151-21-3)

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Aquatic

Crustacea EC50 Water flea (*Daphnia obtusa*) 9.2 - 10.4 mg/L, 48 hours
LC50 Water flea (*Daphnia magna*) 8.4 - 11 mg/L, 48 hours
Fish LC50 Carp, hawk fish (*Cirrhinus mrigala*) 1.36 mg/L, 96 hours

2-Mercaptoethanol (CAS 60-24-2)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 0.4 mg/L, 48 hours

Persistence and degradability No data available.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Glycerol (CAS 56-81-5) -1.76
2-Mercaptoethanol (CAS 60-24-2) -0.326
Sodium dodecyl sulphate (CAS 151-21-3) 1.6

Mobility in soil No data available.

Mobility in general The product is water soluble and may spread in water systems.

Other adverse effects No data available.

13. Disposal considerations

Disposal instructions Dispose of in accordance with all applicable regulations. Do not discharge into drains, water

courses or onto the ground.

Local disposal regulations Dispose of in accordance with local regulations.

Hazardous waste code Not regulated.

Waste from residues / unused Dispose of in accordance with local regulations.

products

Contaminated packaging Dispose of in same manner as unused product.

14. Transport information

DOT

UN number UN3082

UN proper shipping name Environmentally hazardous substances, liquid, n.o.s. (2-

Mercaptoethanol)

Transport hazard class(es) 9
Subsidiary class(es) Packing group III

Environmental hazards

Marine pollutant Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before

handling.

Special provisions 8, 146, 335, IB3, T4, TP1, TP29

Packaging exceptions155Packaging non bulk203Packaging bulk241

IATA

UN number UN3082

UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (2-

Mercaptoethanol)

Transport hazard class(es) 9
Subsidiary class(es) Packaging group III
Environmental hazards Yes
Labels required 9
ERG Code 9L

Special precautions for user Read safety instructions, SDS and emergency procedures before

handling.

IMDG

UN number UN3082

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UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-

Mercaptoethanol)

Transport hazard class(es) 9
Subsidiary class(es) Packaging group III

Environmental hazards

Marine pollutant Yes
Labels required 9
EmS F-A, S-F

Special precautions for user Read safety instructions, SDS and emergency procedures before

handling.

Transport in bulk according to Annex II of

MARPOL 73/78 and the IBC Code

Not applicable.

15. Regulatory information

US federal regulations This product is hazardous according to OSHA 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance No SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

US state regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Safe Drinking Water Act (SDWA)

Not regulated.

Not regulated.

Food and Drug Administration (FDA)

Not regulated.

This product does not contain a chemical known to the State of California to cause cancer,

Massachusetts RTK - Substance List 2-Mercaptoethanol (CAS 60-24-2)

birth defects or other reproductive harm.

Glycerol (CAS 56-81-5)

New Jersey Worker and Community Right-to-Know Act Not regulated.

Pennsylvania RTK - Hazardous Substances 2-Mercaptoethanol (CAS 60-24-2)

Glycerol (CAS 56-81-5)

Rhode Island RTK Not regulated.

California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT)

Not listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	EC Inventory	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PIC	CS) Yes

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United States & Puerto Toxic St

Toxic Substances Control Act (TSCA) Inventory

Yes

Ricc

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

 Issue date
 01/30/2016

 Revision date
 09/30/2016

Version 10

List of abbreviations EC50: Effective Concentration, 50%.

LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%.

Further information Not available.
References RTECS

Disclaimer This information is provided without warranty. The information is believed to be correct. This

information should be used to make an independent determination of the methods to

safeguard workers and the environment.

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SAFETY DATA SHEET

1. Identification

Product identifier Autophagy Ab Sampler Set

Anti-LC3 pAb, Anti-LC3 mAb (8E10), Anti-LC3 mAb (4E12), Anti-Beclin 1 pAb, Anti-Atg16L

pAb, Anti-p62 (SQSTM1) pAb, Anti-Atg5 pAb

Other means of identification

Product code 8485

Recommended use Research use only. **Recommended restrictions** None known.

Manufacturer / Importer / Supplier / Distributor information

Manufacturer andMedical & Biological Laboratories (MBL) Co., Ltd.Supplier (Asia)4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, JapanTelephone number+81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)

Fax +81-52-238-1440 **E-mail** sds-support@mbl.co.jp

URL http://www.mbl.co.jp/e/index.html

Contact person SDS Support

Supplier MBL International Corporation

15A Constitution Way, Woburn, MA 01801, USA

Telephone number +1-800-200-5459, option 3

Fax +1-781-939-6963

E-mail tech@mblintl.com

URL http://www.mblintl.com/

Contact person Technical Service

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
OSHA hazard(s) Not classified.

Label elements

Hazard symbolNone.Signal wordNone.Hazard statementNone.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Wash thoroughly after handling.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None.

3. Composition/Information on ingredients

Mixtures

Chemical name	CAS number	%
Glycerol (Glycerin)	56-81-5	50 - 60

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First aid measures

Inhalation Move to fresh air. Get medical attention if discomfort develops or persists.

Skin contact Remove contaminated clothing. Wash with soap and water. Get medical attention if irritation

develops or persists. Wash contaminated clothing before reuse.

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Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact

lenses. Get medical attention if irritation develops or persists.

Ingestion Drink plenty of water. Seek medical advice.

Most important symptoms/ effects, acute and delayed

Irritation of eyes and mucous membranes. Mild skin irritation.

Indication of immediate

Treat symptomatically.

medical attention and special treatment needed

Get medical attention if any discomfort develops. **General information**

5. Fire fighting measures

Suitable extinguishing media Water. Foam. Dry powder. Carbon dioxide (CO2).

Unsuitable extinguishing

None known.

media

Specific hazards arising from Fire or high temperatures create: Carbon oxides.

the chemical

Special protective equipment Self-contained breathing apparatus, operated in positive pressure mode and full protective

and precautions for firefighters

clothing must be worn in case of fire.

Fire-fighting equipment/instructions Move containers from fire area if you can do that without risk. Use water spray to cool

unopened containers. Prevent entry to sewers and pubic waters.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid inhalation of mist and contact with skin and eyes. For

personal protection, see Section 8 of the SDS.

Methods and materials for containment and cleaning up

Dike far ahead of liquid spill for later disposal. Small Spills: Absorb spillage with suitable absorbent material. Clean contaminated surface thoroughly. After removal, flush

contaminated area thoroughly with water. Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling Provide adequate ventilation. Use work methods which minimize production of vapors and

mists. Avoid inhalation of mist and contact with skin and eyes. Wash hands after handling.

Observe good industrial hygiene practices.

Conditions for safe storage,

including any incompatibilities Keep container tightly closed. Store away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form	
Glycerol (CAS 56-81-5)	PEL	5 mg/m3	Respirable fraction.	
		15 mg/m3	Total dust.	
US. ACGIH Threshold Limit Values				
Components	Tyne	Value	Form	

Glycerol (CAS 56-81-5) TWA 10 mg/m3 Mist.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

No exposure standards allocated.

Appropriate engineering

Provide adequate ventilation and minimize the risk of inhalation of vapors and mists.

controls

Individual protection measures, such as personal protective equipment

Eye/face protection Skin protection

Wear safety glasses.

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Wear protective gloves. Nitrile gloves are recommended, but be aware that the liquid may Hand protection

penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended

by the glove supplier.

Other Wear appropriate clothing to prevent repeated or prolonged skin contact. Wear protective

gloves. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove

supplier.

In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory Respiratory protection

equipment with combination filter (gas filter/dust filter). Seek advice from local supervisor.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid.

Viscous liquid. **Form** Colorless. Color Odor Odorless. Not available. **Odor threshold** Neutral. Melting point/freezing point Not available. Not available. Initial boiling point and

boiling range

Not available. Flash point **Evaporation rate** Not available. Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit

Not available.

- lower (%)

Not available. Flammability limit

- upper (%)

Vapor pressure Not available. Not available. Vapor density Relative density Not available. Soluble in water. Solubility(ies) Not available. **Partition coefficient**

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature Viscosity** Not available.

10. Stability and reactivity

Reactivity The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability Stable at normal conditions. Possibility of hazardous Hazardous reactions do not occur.

reactions

Strong heating. Contact with incompatible materials. Conditions to avoid

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

None known.

products

11. Toxicological information

Information on likely routes of exposure

Ingestion may cause irritation and malaise. Ingestion

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation

hazard.

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Skin contact May cause skin irritation. Causes skin irritation.

Eye contact May cause eye irritation on direct contact. Causes eye irritation.

Symptoms related to the physical, chemical and Irritation of eyes and mucous membranes. Mild skin irritation.

toxicological characteristics

Information on toxicological effects

Acute toxicity Ingestion may cause irritation and malaise.

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/eye May cause eye irritation on direct contact.

irritation

Respiratory sensitization
Skin sensitization
Not a skin sensitizer.
Germ cell mutagenicity
Not classified.
Not classified.
Not classified.
Not classified.
Not classified.

Specific target organ toxicity Knowledge about health hazard is incomplete.

- single exposure

Specific target organ toxicity

- repeated exposure

Knowledge about health hazard is incomplete.

Aspiration hazard Not classified.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude

the possibility that large or frequent spills have a harmful or damaging effect on the

environment.

Persistence and degradability The product is biodegradable.

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient n-octanol / water (log Kow)

Glycerol (CAS 56-81-5) -1.76

Mobility in soil Expected to be highly mobile in soil.

Mobility in general The product is water soluble and may spread in water systems.

Other adverse effects No data available.

13. Disposal considerations

Disposal instructions Dispose of in accordance with all applicable regulations. Do not discharge into drains, water

courses or onto the ground.

Local disposal regulations Dispose of in accordance with local regulations.

Hazardous waste code Not regulated.

Waste from residues / unused Dispose of in accordance with local regulations.

products

Contaminated packaging Dispose of in same manner as unused product.

14. Transport information

DOT Not regulated as a dangerous good.

IATA Not regulated as a dangerous good.

IMDG Not regulated as a dangerous good.

Transport in bulk according Not applicable.

to Annex II of MARPOL 73/78

and the IBC Code

15. Regulatory information

US federal regulations This product is hazardous according to OSHA 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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Immediate Hazard - Yes **Hazard categories**

> Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Not regulated.

SARA 302 Extremely hazardous substance No SARA 311/312 Hazardous chemical Yes

Other federal regulations

Not regulated. Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Safe Drinking Water Act (SDWA) Not regulated. Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR Not listed.

1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21

CFR 1310.12(c))

DEA Exempt Chemical Mixtures Code Number Not regulated. Not regulated. Food and Drug Administration (FDA)

US state regulations This product does not contain a chemical known to the State of California to cause cancer,

birth defects or other reproductive harm.

Massachusetts RTK - Substance List Glycerol (CAS 56-81-5)

Not regulated. **New Jersey Worker and Community Right-to-Know Act**

Pennsylvania RTK - Hazardous Substances Glycerol (CAS 56-81-5) Glycerol (CAS 56-81-5) **Rhode Island RTK**

California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT) Not listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	EC Inventory	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PIC	CS) Yes
United States & Puerto	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Rico

Issue date 01/30/2016 09/30/2016 **Revision date**

Version 10

Not available. **Further information** References **IUCLID**

Disclaimer This information is provided without warranty. The information is believed to be correct. This

information should be used to make an independent determination of the methods to

safeguard workers and the environment.