

# **SAFETY DATA SHEET**

1. Identification

Product identifier V5-tagged Protein Purification Kit Ver.2

Anti-V5-tag Beads

Other means of identification

Product code 3317, 3317A

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 hands after handling.

Storage None.

Disposal None.

Hazard(s) not otherwise None.

classified (HNOC)

# 3. Composition/Information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one	55965-84-9	< 0.1

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

hazard.

Skin contact Remove contaminated clothing. Dry skin with paper towel or similar. Get medical attention if

irritation develops or persists.

Eye contact Rinse immediately with plenty of water, also under the eyelids. Get medical attention if

irritation develops or persists.

Ingestion Drink plenty of water. Get medical attention if any discomfort occurs.

Most important symptoms/ effects, acute and delayed

Dry skin.

Indication of immediate

medical attention and special

treatment needed

Treat symptomatically.

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

#### 5. Fire-fighting measures

Suitable extinguishing media Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

None known.

media

Specific hazards arising from None known.

the chemical

instructions

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

and precautions for

clothing must be worn in case of fire.

firefighters Fire-fighting equipment/

Move containers from fire area if you can do that without risk. Use water spray to cool

unopened containers. Prevent entry to sewers and public waters.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes and prolonged skin contact. For personal protection, see Section 8

Revised: 03/27/2017, 2/15

of the SDS.

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

Absorb spillage with suitable absorbent material. Flush contaminated area thoroughly with water, following removal of the spillage. For waste disposal, see Section 13 of the SDS.

Prevent further leakage or spillage if safe to do so.

#### 7. Handling and storage

Precautions for safe handling Avoid contact with eyes and prolonged skin contact. Wash hands after handling. Observe

good industrial hygiene practices.

Conditions for safe storage,

including any incompatibilities Keep container tightly closed.

#### 8. Exposure controls/personal protection

Occupational exposure limits No exposure limits noted for ingredient(s).

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Appropriate engineering

Ensure adequate ventilation is available, especially in confined areas.

controls

#### Individual protection measures, such as personal protective equipment

Eye/face protection

Risk of splashes: Wear safety glasses with side shields.

Skin protection

Hand protection Risk of contact: Wear protective gloves. Suitable gloves can be recommended by the glove

supplier.

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

**Respiratory protection** Where excessive vapor, mist or dust may result, use NIOSH approved respiratory protection

equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

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 Opaque suspension (50% beads).

**Form** Suspension.

Color White (agarose beads). Dark brown (magnetic beads, magnetic agarose beads).

Revised: 03/27/2017, 3/15

Odor Odorless. Odor threshold Not available. Neutral. Нα Melting point/freezing point Not available. Initial boiling point and Not available.

boiling range

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

Flammability limit

- lower (%)

Not available. Flammability limit

- upper (%)

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

(n-octanol/water)

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

## 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

reactions

Hazardous polymerization does not occur. Hazardous reactions do not occur.

Conditions to avoid None known. Incompatible materials None known **Hazardous decomposition** None known.

products

## 11. Toxicological information

#### Information on likely routes of exposure

Large quantities: May cause discomfort if swallowed. Ingestion

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

hazard.

Skin contact Prolonged contact may cause dryness of the skin. Direct contact with eyes may cause temporary irritation. Eye contact

Symptoms related to the Dry skin.

physical, chemical and toxicological characteristics

# Information on toxicological effects

**Acute toxicity** Large quantities: May cause discomfort if swallowed.

May cause mild skin irritation. Skin corrosion/irritation May cause eye irritation. Serious eye damage/eye No data available. Respiratory sensitization No data available. Skin sensitization No data available. Germ cell mutagenicity No data available. Carcinogenicity Reproductive toxicity No data available.

Specific target organ toxicity No data available.

- single exposure

Specific target organ toxicity No data available.

- repeated exposure

**Aspiration hazard** No data available.

## 12. Ecological information

**Ecotoxicity** The product components are 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 No data available. Bioaccumulative potential No data available.

**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

**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 dangerous goods.

IATA Not regulated as dangerous goods.

IMDG Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78

ng Not applicable.

and the IBC Code

## 15. Regulatory information

**US federal regulations** This product is not hazardous according to OSHA 29CFR 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.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

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

Revised: 03/27/2017, 4/15

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

SARA 313 (TRI reporting) Not regulated.

Other federal 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)

Food and Drug Administration (FDA)

Not regulated.

Not regulated.

Not regulated.

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

Pennsylvania RTK - Hazardous SubstancesNot regulated.Rhode Island RTKNot 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)	No
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	No
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
<b>United States &amp; Puerto</b>	Toxic Substances Control Act (TSCA) Inventory	No

<sup>\*</sup>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
 02/25/2016

 Revision date
 03/27/2017

 Version
 10.1

Further information Not available.

References HSDB® - Hazardous Substances Data Bank

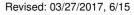
Registry of Toxic Effects of Chemical Substances (RTECS)

C&L Inventory database

**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.





# **SAFETY DATA SHEET**

1. Identification

Product identifier V5-tagged Protein Purification Kit Ver.2

Wash Concentrate

Other means of identification

Product code 3317, 3317A

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)

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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 symbol None.
Signal word None.
Hazard statement None.

Precautionary statement

**Prevention** Observe good industrial hygiene practices.

**Response** Wash thoroughly after handling.

Storage None.
Disposal None.
Hazard(s) not otherwise None.

classified (HNOC)

## 3. Composition/Information on ingredients

# **Mixtures**

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

# 4. First-aid measures

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

hazard.

**Skin contact** Remove contaminated clothing. Dry skin with paper towel or similar. Get medical attention if

irritation develops or persists.

Eye contact Rinse immediately with plenty of water, also under the eyelids. Get medical attention if

irritation develops or persists.

Ingestion No adverse effects due to ingestion are expected. Get medical attention if any discomfort

occurs.

Most important symptoms/ effects, acute and delayed

Dry skin.

Indication of immediate

Treat symptomatically.

medical attention and special

treatment needed

**General information** 

Get medical attention if any discomfort develops.

5. Fire-fighting measures

Suitable extinguishing media Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media

None known.

Specific hazards arising from None known.

the chemical

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 firefighting: follow the general fire

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precautions indicated in the workplace.

Fire-fighting equipment/

instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards The product is non-combustible.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid prolonged and repeated contact. Wear suitable protective clothing. For personal

protection, see Section 8 of the SDS.

Methods and materials for containment and cleaning up Absorb spillage with non-combustible, absorbent material. After removal, flush contaminated

area thoroughly with water. For waste disposal, see Section 13 of the SDS.

Prevent further leakage or spillage if safe to do so. **Environmental precautions** 

7. Handling and storage

Precautions for safe handling Avoid prolonged and repeated contact. Wear appropriate personal protective equipment.

Observe good industrial hygiene practices.

Conditions for safe storage.

including any incompatibilities Keep container closed.

#### 8. Exposure controls/personal protection

Occupational exposure limits No exposure limits noted for ingredient(s).

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection

If risk of splashing, wear safety goggles or face shield.

Skin protection Hand protection

Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change

is advisable. Suitable gloves can be recommended by the glove supplier.

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

contact.

Respiratory protection

Thermal hazards

No protection is ordinarily required under normal conditions of use. Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and

protective equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** 

Revised: 03/27/2017, 8/15

Physical state Liquid. **Form** Liquid. Colorless. Color Odor Odorless. **Odor threshold** Not available. Not available. Ηα Melting point/freezing point Not available. Initial boiling point and Not available.

boiling range

Flash point

Evaporation rate
Flammability (solid, gas)
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.Partition coefficientNot available.

(*n*-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity 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

None known.

Conditions to avoid None known.

Incompatible materials None known.

Hazardous decomposition No hazard in normal industrial use.

products

#### 11. Toxicological information

#### Information on likely routes of exposure

**Ingestion** Large quantities: May cause discomfort if swallowed.

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

hazard.

**Skin contact** Prolonged contact may cause dryness of the skin. **Eye contact** Direct contact with eyes may cause temporary irritation.

Symptoms related to the Dry skin.

physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity

Large quantities: May cause discomfort if swallowed.

Skin corrosion/irritation

Prolonged contact may cause dryness of the skin.

Direct contact with eyes may cause temporary irritation.

irritation

Respiratory sensitizationNo data available.Skin sensitizationNot a skin sensitizer.Germ cell mutagenicityNo data available.CarcinogenicityNo data available.Reproductive toxicityNo data available.

Specific target organ toxicity No data available.

- single exposure

Specific target organ toxicity No data available.

- repeated exposure

**Aspiration hazard** No data available.

## 12. Ecological information

**Ecotoxicity** The product components are 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 No data available. **Bioaccumulative potential** No data available. 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 Not regulated as dangerous goods. IATA Not regulated as dangerous goods. **IMDG** Not regulated as dangerous goods.

Not applicable. Transport in bulk according

to Annex II of MARPOL 73/78

and the IBC Code

#### 15. Regulatory information

US federal regulations This product is not hazardous according to OSHA 29CFR 1910.1200.

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

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. **CERCLA Hazardous Substance List (40 CFR 302.4)** Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No

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

Revised: 03/27/2017, 9/15

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

Not regulated. SARA 313 (TRI reporting)

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. Not regulated.

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

Safe Drinking Water Act (SDWA) Not regulated. Not listed. Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR

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

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 Not regulated.

CFR 1310.12(c))

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

**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 ListNot regulated.New Jersey Worker and Community Right-to-Know ActNot regulated.Pennsylvania RTK - Hazardous SubstancesNot regulated.Rhode Island RTKNot 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	CCS) Yes
United States & Puerto	Toxic Substances Control Act (TSCA) Inventory	Yes
Rico		

<sup>\*</sup>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
 02/25/2016

 Revision date
 03/27/2017

 Version
 10.1

Further information Not available.

**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.



# **SAFETY DATA SHEET**

Revised: 03/27/2017, 11/15

1. Identification

Product identifier V5-tagged Protein Purification Kit Ver.2

**Elution Peptide** 

Other means of identification

Product code 3317, 3317A

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)

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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 symbol None.
Signal word None.
Hazard statement None.

Precautionary statement

**Prevention** Observe good industrial hygiene practices.

**Response** Wash thoroughly after handling.

Storage None.
Disposal None.
Hazard(s) not otherwise None.

classified (HNOC)

## 3. Composition/Information on ingredients

#### **Mixtures**

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

## 4. First-aid measures

Inhalation Move injured person into fresh air and keep person calm under observation. Get medical

attention if any discomfort continues.

Skin contact Wash contact areas with soap and water. Get medical attention if irritation develops or

persists.

**Eye contact** Do not rub eye. Rinse the eye with water immediately. Make sure to remove any contact

lenses from the eyes before rinsing. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth thoroughly if dust is ingested. Get medical attention if any discomfort continues.

Most important symptoms/

Dry skin.

effects, acute and delayed

Indication of immediate

Treat symptomatically.

medical attention and special

treatment needed

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

#### 5. Fire-fighting measures

Suitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

None known.

media

Specific hazards arising from None known.

the chemical

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 firefighting: follow the general fire precautions indicated in the workplace.

Revised: 03/27/2017, 12/15

Fire-fighting equipment/

instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid prolonged and repeated contact. Wear suitable protective clothing. For personal protection, see Section 8 of the SDS.

Methods and materials for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. After removal, flush contaminated area thoroughly with water. Never return spills to original containers for re-use.

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

## 7. Handling and storage

Precautions for safe handling Avoid prolonged and repeated contact. Wear appropriate personal protective equipment.

Observe good industrial hygiene practices.

Conditions for safe storage, including any

incompatibilities

Keep container closed.

#### 8. Exposure controls/personal protection

Occupational exposure limits No exposure limits noted for ingredient(s).

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Provide adequate ventilation. Minimize dust generation and accumulation. Provide easy Appropriate engineering

controls

access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

Eye/face protection

If risk of splashing, wear safety goggles or face shield.

Skin protection

Wear protective gloves. Frequent change is advisable. Suitable gloves can be recommended Hand protection

by the glove supplier.

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

contact.

Respiratory protection Thermal hazards

No protection is ordinarily required under normal conditions of use. Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and

protective equipment to remove contaminants.

#### 9. Physical and chemical properties

**Appearance** 

Solid. **Physical state** Powder. **Form** 

White. Color Odor Odorless. Odor threshold Not available. рΗ Not available. Not available. Melting point/freezing point Not available. Initial boiling point and

boiling range

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

- lower (%)

Flammability limit Not available.

- upper (%)

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

(n-octanol/water)

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

## 10. Stability and reactivity

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

Revised: 03/27/2017, 13/15

Chemical stability Stable at normal conditions.

Possibility of hazardous

reactions

None known.

Conditions to avoid None known. None known. Incompatible materials

**Hazardous decomposition** 

No hazard in normal industrial use.

products

#### 11. Toxicological information

#### Information on likely routes of exposure

Ingestion Large quantities: May cause discomfort if swallowed.

Dust may irritate respiratory system. Inhalation

Skin contact Prolonged contact may cause dryness of the skin. Direct contact with eyes may cause temporary irritation. Eye contact

Symptoms related to the Dry skin.

physical, chemical and toxicological characteristics

#### Information on toxicological effects

Large quantities: May cause discomfort if swallowed. **Acute toxicity** Prolonged contact may cause dryness of the skin. Skin corrosion/irritation Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

No data available. Respiratory sensitization Skin sensitization Not a skin sensitizer. Germ cell mutagenicity No data available. Carcinogenicity No data available. No data available. Reproductive toxicity Specific target organ toxicity No data available.

- single exposure

Specific target organ toxicity No data available.

- repeated exposure

**Aspiration hazard** No data available.

#### 12. Ecological information

**Ecotoxicity** The product components are 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 No data available. Bioaccumulative potential No data available. 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.

Not regulated. Hazardous waste code

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 dangerous goods. **IATA** Not regulated as dangerous goods. **IMDG** Not regulated as dangerous goods.

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 not hazardous according to OSHA 29CFR 1910.1200.

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

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. **CERCLA Hazardous Substance List (40 CFR 302.4)** Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No

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

Revised: 03/27/2017, 14/15

SARA 302 Extremely hazardous substance SARA 311/312 Hazardous chemical Nο

SARA 313 (TRI reporting) Not regulated.

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)

Not regulated. Safe Drinking Water Act (SDWA) Not listed.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR

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

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 Not regulated.

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 ListNot regulated.New Jersey Worker and Community Right-to-Know ActNot regulated.Pennsylvania RTK - Hazardous SubstancesNot regulated.Rhode Island RTKNot 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
United States & Puerto	Toxic Substances Control Act (TSCA) Inventory	Yes

Rico

## 16. Other information

 Issue date
 02/25/2016

 Revision date
 03/27/2017

 Version
 10.1

Further information Not available.

**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.

<sup>\*</sup>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).