



# SAFETY DATA SHEET

1. Identification

Product identifier HA-tagged Protein Purification Kit

Anti-HA-tag beads

Other means of identification

Product code 3320A

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 symbol None.
Signal word None.
Hazard statement None.

**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	55965-84-9	< 0.1
and 2-methyl-4-isothiazolin-3-one		

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.

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

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 Treat symptomatically.

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, operated in positive pressure mode and full protective

Revised: 01/30/2018, 2/15

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 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

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).

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

Appropriate engineering

controls

Ensure adequate ventilation is available, especially in confined areas.

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

Risk of splashes: Wear safety glasses with side shields. Eye/face protection

Skin protection

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

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

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

Revised: 01/30/2018, 3/15

### 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).

Odor Odorless.
Odor threshold Not available.
pH Neutral.
Melting point/freezing point Not available.
Initial boiling point and 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.Partition coefficientNot available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot 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

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

**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.

Dry skin.

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

Symptoms related to the

physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity Large quantities: May cause discomfort if swallowed.

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

Revised: 01/30/2018, 4/15

Respiratory sensitization No data available.

Skin sensitization No data available.

Germ cell mutagenicity No data available.

Carcinogenicity No data available.

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 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)

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

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

Not regulated.

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

Not regulated.

Revised: 01/30/2018, 5/15

Safe Drinking Water Act (SDWA)Not 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)	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
United States & Puerto Rico	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

 Issue date
 01/30/2016

 Revision date
 01/30/2018

 Version
 10.1

Further information Not available.

References HSDB® - Hazardous Substances Data Bank

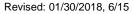
Registry of Toxic Effects of Chemical Substances (RTECS)

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 HA-tagged Protein Purification Kit

Elution peptide

Other means of identification

Product code 3320A

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 symbolNone.Signal wordNone.Hazard statementNone.

**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

Most important symptoms/ effects, acute and delayed

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

Revised: 01/30/2018, 7/15

Dry skin.

Indication of immediate medical attention and special

treatment needed

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

Treat symptomatically.

## 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

and precautions for

firefighters Fire-fighting equipment/

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.

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

**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).

Appropriate engineering

access to water supply and eye wash facilities. controls

Individual protection measures, such as personal protective equipment

Eye/face protection Skin protection

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

Hand protection

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

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

by the glove supplier.

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

contact.

Respiratory protection

No protection is ordinarily required under normal conditions of use.

Thermal hazards **General hygiene** 

Other

Wear appropriate thermal protective clothing, when necessary.

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 considerations

protective equipment to remove contaminants.

### 9. Physical and chemical properties

**Appearance** 

Revised: 01/30/2018, 8/15

**Physical state** Solid. **Form** Powder. Color White. Odor Odorless. **Odor threshold** Not available. Not available. Hq Melting point/freezing point Not available. Initial boiling point and Not available.

boiling range

Not available. Flash point 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 (%)

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

(n-octanol/water)

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

## 10. Stability and reactivity

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

**Chemical stability** Stable at normal conditions.

Possibility of hazardous

reactions

None known.

None known. Conditions to avoid 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.

Dust may irritate respiratory system. Inhalation

Skin contact Prolonged contact may cause dryness of the skin. Direct contact with eyes may cause temporary irritation. Eve 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** Skin corrosion/irritation Prolonged contact may cause dryness of the skin. Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

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

Revised: 01/30/2018, 9/15

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

Dispose of in same manner as unused product. Contaminated packaging

# 14. Transport information

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

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 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. Not listed. **CERCLA Hazardous Substance List (40 CFR 302.4)** 

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

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. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

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

Not regulated.

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

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	CS) Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<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
 01/30/2016

 Revision date
 01/30/2018

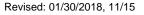
 Version
 10.1

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

1. Identification

Product identifier HA-tagged Protein Purification Kit

Wash concentrate

Other means of identification

Product code 3320A

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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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 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.

Revised: 01/30/2018, 12/15

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 medical attention and special Treat symptomatically.

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

instructions

Special protective equipment Self-contained breathing apparatus and full protective clothing should be worn when fighting

and precautions for

chemical fires. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

firefighters

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

Fire-fighting equipment/

The product is non-combustible.

General fire hazards

#### 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 **Environmental precautions** 

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.

# 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).

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

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

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

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.

General hygiene considerations

Wear appropriate thermal protective clothing, when necessary.

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** 

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

boiling range

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

- lower (%)

Flammability limit Not available.

- upper (%)

Not available. Vapor pressure 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** Not available. **Viscosity** 

## 10. Stability and reactivity

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

Stable at normal conditions. **Chemical stability** 

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

Large quantities: May cause discomfort if swallowed. Ingestion

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

Dry skin.

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

Symptoms related to the 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. Reproductive toxicity No data available. Specific target organ toxicity No data available.

- single exposure

Specific target organ toxicity

- repeated exposure

No data available.

**Aspiration hazard** No data available.

## 12. Ecological information

The product components are not classified as environmentally hazardous. However, this **Ecotoxicity** 

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. No data available. **Bioaccumulative potential** Mobility in soil No data available.

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

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.

Dispose of in accordance with local regulations. Local disposal 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 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.

Not regulated. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) 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)

Immediate Hazard - No **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 Nο

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)

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

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

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

Not regulated.

Not listed.

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

CFR 1310.12(c))

**US** state regulations

**DEA Exempt Chemical Mixtures Code Number** 

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,

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 Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<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
 01/30/2016

 Revision date
 01/30/2018

 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.