

# SAFETY DATA SHEET

Revised: 09/30/2016, 1/15

1. Identification

Product identifier c-Myc-tagged Protein Magnetic Purification Kit

Anti-c-Myc-tag Magnetic Beads

Other means of identification

Product code 3340,3340A

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

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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 hands 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.

Supplemental information None.

# 3. Composition/Information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
Sodium azide	26628-22-8	< 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** Move to fresh air. Get medical attention if any discomfort continues.

**Skin contact** Remove contaminated clothing. Wash skin with soap and water. 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 Rinse mouth thoroughly. 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.

and precautions for

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

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clothing must be worn in case of fire.

Fire-fighting equipment/

instructions

firefighters

the chemical

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

unopened containers. Prevent entry to sewers and public waters.

General fire hazards The product is non-combustible.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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 **Environmental precautions** 

Absorb spillage with suitable 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 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. Store away from incompatible materials.

#### 8. Exposure controls/personal protection

## Occupational exposure limits

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	
Sodium azide (CAS 26628-22-8)	Ceiling	0.29 mg/m3	
		0.11 ppm	

## US NIOSH Pocket Guide to Chemical Hazards: Ceiling Limit Value and Time Period (if specified)

Components	Type	Value	
Sodium azide (CAS 26628-22-8)	Ceiling	0.3 mg/m3	
		0.1 ppm	

**Biological limit values** 

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

Appropriate engineering

Provide adequate ventilation. Provide easy access to water supply and eye wash facilities.

controls

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

Eye/face protection Skin protection

Risk of splashes: Wear safety glasses with side shields.

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 appropriate clothing to prevent repeated or prolonged skin contact.

**Respiratory protection**No special precautions. Seek advice from local supervisor. **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.

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#### 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 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 Sodium azide: Reacts with copper, lead, silver, mercury and carbon disulfide to form

reactions particularly shock-sensitive compounds. Reacts with acids, forming toxic and explosive

hydrogen azide.

Conditions to avoid None known.

Incompatible materials Heavy metals. Acids.

**Hazardous decomposition** 

products

None known.

# 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.

irritation

Respiratory sensitization Based on available data, the classification criteria are not met. Skin sensitization Based on available data, the classification criteria are not met.

No data available. Germ cell mutagenicity

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity Not listed. Not listed. NTP Report on Carcinogens OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

Reproductive toxicity No data available. Specific target organ toxicity No data available.

- single exposure

Specific target organ toxicity No data available.

- repeated exposure

Based on available data, the classification criteria are not met. **Aspiration hazard** 

Prolonged inhalation may be harmful. **Chronic effects** 

#### 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

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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 The environmental hazard of the product is considered to be limited.

#### 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

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

Transport in bulk according Not applicable.

to Annex II of MARPOL 73/78

and the IBC Code

# 15. Regulatory information

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

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)

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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

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 ListNot listed.New Jersey Worker and Community Right-to-Know ActNot listed.Pennsylvania RTK - Hazardous SubstancesNot listed.Rhode Island RTKNot listed.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
<b>United States &amp; Puerto</b>	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

Rico

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Further information Not available.

References Registry of Toxic Effects of Chemical Substances (RTECS)

HSDB® - Hazardous Substances Data Bank

**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: 09/30/2016, 6/15

1. Identification

Product identifier c-Myc-tagged Protein Magnetic Purification Kit

Wash Concentrate

Other means of identification

Product code 3340,3340A

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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Contact person SDS Support

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15A Constitution Way, Woburn, MA 01801, USA

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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 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 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

media

None known.

Specific hazards arising from None known.

the chemical

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.

Fire-fighting equipment/

instructions

firefighters

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

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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.

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

contact.

Respiratory protection Thermal hazards

No protection is ordinarily required under normal conditions of use.

General hygiene

Wear appropriate thermal protective clothing, when necessary.

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** 

Physical state
Form
Color
Colorless.

Odor
Odor threshold
PH
Not available.
Melting point/freezing point

Liquid.
Colorless.
Odorless.
Not available.
Not 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 (%)

Initial boiling point and

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

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Chemical stability Stable at normal conditions.

Possibility of hazardous

reactions

None known.

Not available.

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

Skin corrosion/irritation

Serious eye damage/eye

Large quantities: May cause discomfort if swallowed.

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.

Not applicable.

#### 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

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.

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

Not regulated.

Not regulated.

Not regulated. Not listed.

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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)

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

\*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

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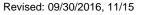
Version 10

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 c-Myc-tagged Protein Magnetic Purification Kit

**Elution Peptide** 

Other means of identification

Product code 3340,3340A

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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**Supplier** MBL International Corporation

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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** 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

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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.

#### 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).

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

access to water supply and eye wash facilities. controls

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** 

ColorWhite.OdorOdorless.Odor thresholdNot available.pHNot available.Melting point/freezing pointNot available.Initial boiling point andNot available.

boiling range
Flash point

Evaporation rate

Not available.

Not available.

Flammability (solid, gas)
Upper/lower flammability or explosive limits
Flammability limit
Not available.
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** Dust may irritate respiratory system.

**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

Skin corrosion/irritation

Serious eye damage/eye

Large quantities: May cause discomfort if swallowed.

Prolonged contact may cause dryness of the skin.

Direct contact with eyes may cause temporary irritation.

irritation

Respiratory sensitization
Skin sensitization
Not a skin sensitizer.
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 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.

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.

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

Not regulated.

Not regulated.

Not listed.

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)

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

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

CFR 1310.12(c))

DEA Exempt Chemical Mixtures Code Number

Food and Drug Administration (FDA)

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 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

<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
 09/30/2016

Version 10

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.