

## Safety Data Sheets

### Leica HER2 FISH System - 30 Test

Catalog No: TA9217

**SDS**                      LSI HER2/CEP17 Probe  
                                 Post Hybridization Wash 2  
                                 BOND Enzyme Concentrate 2  
                                 BOND Enzyme Diluent

#### Hyperlinks

[EN](#)

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**SDS Expiry Date: 20 FEB 2023**

## SAFETY DATA SHEET

LSI HER2/CEP17 PROBE

BIOSYSTEMS

Page: 1

Compilation date: 11/SEP/2020

Revision No: 4

### Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Product name:** LSI HER2/CEP17 PROBE

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Use of substance / mixture:** Use in laboratories - Professional.

#### 1.3. Details of the supplier of the safety data sheet

**Company name:** Leica Biosystems Newcastle Ltd

Balliol Business Park West

Benton Lane

Newcastle Upon Tyne

NE12 8EW

United Kingdom

**Tel:** +44 191 2150567

**Fax:** +44 191 2151152

**Email:** [msds@LeicaBiosystems.com](mailto:msds@LeicaBiosystems.com)

#### 1.4. Emergency telephone number

**Emergency tel:** USA and Canada: 1-800-424-9300

Outside USA and Canada: +1 703-741-5970

For emergency calls only.

### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification under CLP:** Repr. 1B: H360D

**Classification under CHIP:** T: R61

**Most important adverse effects:** May damage the unborn child.

#### 2.2. Label elements

**Label elements under CLP:**

**Hazard statements:** H360D: May damage the unborn child.

**Signal words:** Danger

**Hazard pictograms:** GHS08: Health hazard



**Precautionary statements:** P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

[cont...]

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\* P280: Wear protective gloves/protective clothing/eye protection/face protection.

P308+313: If exposed or concerned: Get medical advice/attention.

P314: Get medical advice/attention if you feel unwell.

## Label elements under CHIP:

**Hazard symbols:** T; Toxic.



**Risk phrases:** R61: May cause harm to the unborn child.

**Safety phrases:** S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S53: Avoid exposure - obtain special instructions before use.

**Precautionary phrases:** Restricted to professional users.

## 2.3. Other hazards

**Other hazards:** Danger of serious damage to health by prolonged exposure.

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients: FORMAMIDE

EC	CAS	CLP Classification	CHIP Classification	Percent
200-842-0	75-12-7	Repr. 1B: H360D	T: R61	30-50%

**SVHC:** Formamide is classified as a substance of very high concern.

**REACH Registration Number:** 01-2119496064-35-xxxx

#### Non-classified ingredients: DEXTRAN SULPHATE

EC	CAS	CLP Classification	CHIP Classification	Percent
-	9011-18-1	Skin Irrit.2: H315; Eye Irrit. 2: H319 STOT SE 3: H335	Xi: R36/37/38	1-10%

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin.

Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Do not induce vomiting. Wash out mouth with water. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Move to fresh air in case of accidental inhalation of vapours. Consult a doctor.

[cont...]

# SAFETY DATA SHEET

LSI HER2/CEP17 PROBE

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## 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be irritation of the throat.

**Inhalation:** No symptoms.

**Delayed / immediate effects:** No data available.

## 4.3. Indication of any immediate medical attention and special treatment needed

**Immediate / special treatment:** Show this safety data sheet to the doctor in attendance. Do not induce vomiting.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Alcohol or polymer foam. Alcohol resistant foam. Dry chemical powder. Carbon dioxide. Water spray.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes of Carbon Monoxide, Hydrogen Cyanide, Ammonia, and Nitrogen Oxides

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Refer to section 13 of SDS for suitable method of disposal.

### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS. Refer to section 13 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Ensure there is sufficient ventilation of the area.

[cont...]

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LSI HER2/CEP17 PROBE

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## 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Avoid incompatible materials and conditions - see section 10 of SDS.

**Suitable packaging:** Not applicable.

## 7.3. Specific end use(s)

**Specific end use(s):** Use in laboratories - Professional.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Hazardous ingredients:** FORMAMIDE

**Workplace exposure limits:**

**Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	37 mg/m <sup>3</sup>	56 mg/m <sup>3</sup>	-	-
IE	18 mg/m <sup>3</sup>	-	-	-
US	15 mg/m <sup>3</sup>	-	-	-
CA	18 mg/m <sup>3</sup>	-	-	-
AU	18 mg/m <sup>3</sup>	-	-	-
NZ	18 mg/m <sup>3</sup>	-	-	-

### DNEL/PNEC Values

**DNEL / PNEC** No data available.

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure all engineering measures mentioned in section 7 of SDS are in place.

**Respiratory protection:** Respiratory protection must be available in case of emergency.

**Hand protection:** Impermeable gloves. Butyl gloves.

**Eye protection:** Tightly fitting safety goggles. Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing. Rubber boots.

**Environmental:** Prevent from entering in public sewers or the immediate environment. Ensure all engineering measures mentioned in section 7 of SDS are in place. Refer to specific Member State legislation for requirements under Community environmental legislation.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Liquid

**Colour:** Colourless

**Odour:** Odourless

**Evaporation rate:** No data available.

**Oxidising:** No data available.

**Solubility in water:** Miscible.

[cont...]

# SAFETY DATA SHEET

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**Viscosity:** No data available.  
**Kinematic viscosity:** No data available.  
**Viscosity test method:** No data available.  
**Boiling point/range°C:** No data available.      **Melting point/range°C:** No data available.  
**Flammability limits %: lower:** No data available.      **upper:** No data available.  
**Flash point°C:** No data available.      **Part.coeff. n-octanol/water:** No data available.  
**Autoflammability°C:** Not applicable.      **Vapour pressure:** No data available.  
**Relative density:** No data available.      **pH:** No data available.  
**VOC g/l:** No data available.

## 9.2. Other information

**Other information:** Not applicable.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

**Conditions to avoid:** Heat. Hot surfaces. Flames.

### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents. Acids. Bases. Iodine. Pyridine. Sulphur Trioxide. Aluminium.  
Iron. Copper. Corrodes natural rubber.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes of Carbon Monoxide, Hydrogen Cyanide, Ammonia, and Nitrogen Oxides.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicity values:**

**Hazardous ingredients:**

**FORMAMIDE**

Route	Species	Test	Value	Units
ORAL	RAT	LD50	5325	mg/kg
GASES	RAT	4H LC50	> 21	mg/l
DERMAL	RAT	LD50	> 3000	mg/kg bw/day

[cont...]

# SAFETY DATA SHEET

LSI HER2/CEP17 PROBE

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## Excluded effects for mixture:

Effect	Route	Basis
Acute toxicity (harmful)	-	Based on available data the classification criteria are not met
Acute toxicity (toxic)	-	Based on available data the classification criteria are not met
Acute toxicity (very toxic)	-	Based on available data the classification criteria are not met
Irritation	-	Based on available data the classification criteria are not met
Corrosivity	-	Based on available data the classification criteria are not met
Sensitisation	-	Based on available data the classification criteria are not met
Repeated dose toxicity	-	Based on available data the classification criteria are not met
Carcinogenicity	-	Based on available data the classification criteria are not met
Mutagenicity	-	Based on available data the classification criteria are not met
Toxicity for reproduction	-	Based on available data the classification criteria are not met

## Symptoms / routes of exposure

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be irritation of the throat.

**Inhalation:** No symptoms.

**Delayed / immediate effects:** No data available.

**Other information:** Not applicable.

## Section 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity values:** No data available.

### 12.2. Persistence and degradability

**Persistence and degradability:** Biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

### 12.4. Mobility in soil

**Mobility:** Readily absorbed into soil.

[cont...]

# SAFETY DATA SHEET

LSI HER2/CEP17 PROBE

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## 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

## 12.6. Other adverse effects

**Other adverse effects:** Negligible ecotoxicity.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Recovery operations:** Not applicable.

**Disposal of packaging:** Arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

**Land (ADR/RID):** Not regulated for transport by land.

**Sea (IMDG):** Not regulated for transport by sea.

**Air (IATA):** Not regulated for transport by air.

**Inland Waterways (ADNR/AND):** Not regulated for transport by inland waterways.

Sub-section 14.1 to 14.7 do not apply. However, as with all chemicals, packages containing this substance should be handled during loading, transport, and unloading operations in a manner which minimises the risk of damage to and leakage from those packages.

## Section 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Specific regulations:** This safety data sheet has been prepared according to;

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures.

DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.

[cont...]

# SAFETY DATA SHEET

LSI HER2/CEP17 PROBE

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## 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

**Other information:** \* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.3:** H360D: May damage the unborn child.

R61: May cause harm to the unborn child.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

**SAFETY DATA SHEET**  
POST HYBRIDIZATION WASH 2

Page: 1

Compilation date: 11/SEP/2020

Revision No: 4

**Section 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name:** POST HYBRIDIZATION WASH 2**REACH Registration Number:** Registration numbers are not available for some or all of the substance ingredients of this mixture as the substance(s) or its uses are exempt from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of substance / mixture:** Use in laboratories - Professional.**1.3. Details of the supplier of the safety data sheet****Company name:** Leica Biosystems Newcastle Ltd

Balliol Business Park West

Benton Lane

Newcastle Upon Tyne

NE12 8EW

United Kingdom

**Tel:** +44 191 2150567**Fax:** +44 191 2151152**Email:** [msds@LeicaBiosystems.com](mailto:msds@LeicaBiosystems.com)**1.4. Emergency telephone number****Emergency tel:** USA and Canada: 1-800-424-9300

Outside USA and Canada: +1 703-741-5970

For emergency calls only.

**Section 2: Hazards identification****2.1. Classification of the substance or mixture****Classification under CLP:** Repr. 1B: H360D**Classification under CHIP:** T: R61**Most important adverse effects:** May damage the unborn child.**2.2. Label elements****Label elements under CLP:****Hazard statements:** H360D: May damage the unborn child.**Signal words:** Danger**Hazard pictograms:** GHS08: Health hazard

# SAFETY DATA SHEET

## POST HYBRIDIZATION WASH 2

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**Precautionary statements:** P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P260: Do not breathe dust/fumes/gas/mist/vapours/spray.  
\* P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P308+313: If exposed or concerned: Get medical advice/attention.  
P314: Get medical advice/attention if you feel unwell.

### Label elements under CHIP:

**Hazard symbols:** T; Toxic.



**Risk phrases:** R61: May cause harm to the unborn child.

**Safety phrases:** S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S53: Avoid exposure - obtain special instructions before use.

**Precautionary phrases:** Restricted to professional users.

### 2.3. Other hazards

**Other hazards:** Danger of serious damage to health by prolonged exposure.

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

**Hazardous ingredients:**

#### FORMAMIDE

EC	CAS	CLP Classification	CHIP Classification	Percent
200-842-0	75-12-7	Repr. 1B: H360D	T: R61	30-50%

**SVHC:** Formamide is classified as a substance of very high concern.

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin.  
Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Do not induce vomiting. Wash out mouth with water. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Move to fresh air in case of accidental inhalation of vapours. Consult a doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

[cont...]

**SAFETY DATA SHEET**  
POST HYBRIDIZATION WASH 2

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**Ingestion:** There may be irritation of the throat.

**Inhalation:** No symptoms.

**Delayed / immediate effects:** No data available.

**4.3. Indication of any immediate medical attention and special treatment needed**

**Immediate / special treatment:** Show this safety data sheet to the doctor in attendance. Do not induce vomiting.

**Section 5: Fire-fighting measures**

**5.1. Extinguishing media**

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Alcohol or polymer foam. Alcohol resistant foam. Dry chemical powder. Carbon dioxide. Water spray.

**5.2. Special hazards arising from the substance or mixture**

**Exposure hazards:** In combustion emits toxic fumes of Carbon Monoxide, Hydrogen Cyanide, Ammonia, and Nitrogen Oxides

**5.3. Advice for fire-fighters**

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**Section 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions:** Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

**6.2. Environmental precautions**

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

**6.3. Methods and material for containment and cleaning up**

**Clean-up procedures:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Refer to section 13 of SDS for suitable method of disposal.

**6.4. Reference to other sections**

**Reference to other sections:** Refer to section 8 of SDS. Refer to section 13 of SDS.

**Section 7: Handling and storage**

**7.1. Precautions for safe handling**

**Handling requirements:** Ensure there is sufficient ventilation of the area.

[cont...]

**SAFETY DATA SHEET**  
POST HYBRIDIZATION WASH 2

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**7.2. Conditions for safe storage, including any incompatibilities**

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Avoid incompatible materials and conditions - see section 10 of SDS.

**Suitable packaging:** Not applicable.

**7.3. Specific end use(s)**

**Specific end use(s):** Use in laboratories - Professional.

**Section 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Hazardous ingredients:** FORMAMIDE

**Workplace exposure limits:**

**Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	37 mg/m <sup>3</sup>	56 mg/m <sup>3</sup>	-	-
IE	18 mg/m <sup>3</sup>	-	-	-
US	15 mg/m <sup>3</sup>	-	-	-
CA	18 mg/m <sup>3</sup>	-	-	-
AU	18 mg/m <sup>3</sup>	-	-	-
NZ	18 mg/m <sup>3</sup>	-	-	-

**DNEL/PNEC Values**

**DNEL / PNEC** No data available.

**8.2. Exposure controls**

**Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure all engineering measures mentioned in section 7 of SDS are in place.

**Respiratory protection:** Respiratory protection must be available in case of emergency.

**Hand protection:** Impermeable gloves. Butyl gloves.

**Eye protection:** Tightly fitting safety goggles. Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing. Rubber boots.

**Environmental:** Prevent from entering in public sewers or the immediate environment. Ensure all engineering measures mentioned in section 7 of SDS are in place. Refer to specific Member State legislation for requirements under Community environmental legislation.

**Section 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**State:** Liquid

**Colour:** Colourless

**Odour:** Odourless

**Evaporation rate:** No data available.

**Oxidising:** No data available.

**Solubility in water:** Miscible.

[cont...]

**SAFETY DATA SHEET**  
POST HYBRIDIZATION WASH 2

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**Viscosity:** No data available.  
**Kinematic viscosity:** No data available.  
**Viscosity test method:** No data available.  
**Boiling point/range°C:** No data available.      **Melting point/range°C:** No data available.  
**Flammability limits %: lower:** No data available.      **upper:** No data available.  
**Flash point°C:** No data available.      **Part.coeff. n-octanol/water:** No data available.  
**Autoflammability°C:** Not applicable.      **Vapour pressure:** No data available.  
**Relative density:** No data available.      **pH:** No data available.  
**VOC g/l:** No data available.

**9.2. Other information**

**Other information:** Not applicable.

**Section 10: Stability and reactivity**

**10.1. Reactivity**

**Reactivity:** Stable under recommended transport or storage conditions.

**10.2. Chemical stability**

**Chemical stability:** Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

**10.4. Conditions to avoid**

**Conditions to avoid:** Heat. Hot surfaces. Flames.

**10.5. Incompatible materials**

**Materials to avoid:** Strong oxidising agents. Acids. Bases. Iodine. Pyridine. Sulphur Trioxide. Aluminium.  
Iron. Copper. Corrodes natural rubber.

**10.6. Hazardous decomposition products**

**Haz. decomp. products:** In combustion emits toxic fumes of Carbon Monoxide, Hydrogen Cyanide, Ammonia, and Nitrogen Oxides.

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**Toxicity values:**

**Hazardous ingredients:**

**FORMAMIDE**

Route	Species	Test	Value	Units
ORAL	RAT	LD50	5325	mg/kg
GASES	RAT	4H LC50	> 21	mg/l
DERMAL	RAT	LD50	> 3000	mg/kg bw/day

[cont...]

**SAFETY DATA SHEET**  
POST HYBRIDIZATION WASH 2

**Excluded effects for mixture:**

Effect	Route	Basis
Acute toxicity (harmful)	-	Based on available data the classification criteria are not met
Acute toxicity (toxic)	-	Based on available data the classification criteria are not met
Acute toxicity (very toxic)	-	Based on available data the classification criteria are not met
Irritation	-	Based on available data the classification criteria are not met
Corrosivity	-	Based on available data the classification criteria are not met
Sensitisation	-	Based on available data the classification criteria are not met
Repeated dose toxicity	-	Based on available data the classification criteria are not met
Carcinogenicity	-	Based on available data the classification criteria are not met
Mutagenicity	-	Based on available data the classification criteria are not met
Toxicity for reproduction	-	Based on available data the classification criteria are not met

**Symptoms / routes of exposure**

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be irritation of the throat.

**Inhalation:** No symptoms.

**Delayed / immediate effects:** No data available.

**Other information:** Not applicable.

**Section 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity values:** No data available.

**12.2. Persistence and degradability**

**Persistence and degradability:** Biodegradable.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential:** No bioaccumulation potential.

**12.4. Mobility in soil**

**Mobility:** Readily absorbed into soil.

**SAFETY DATA SHEET**  
POST HYBRIDIZATION WASH 2

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**12.5. Results of PBT and vPvB assessment**

**PBT identification:** This product is not identified as a PBT/vPvB substance.

**12.6. Other adverse effects**

**Other adverse effects:** Negligible ecotoxicity.

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Recovery operations:** Not applicable.

**Disposal of packaging:** Arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**Section 14: Transport information**

**Land (ADR/RID):** Not regulated for transport by land.

**Sea (IMDG):** Not regulated for transport by sea.

**Air (IATA):** Not regulated for transport by air.

**Inland Waterways (ADNR/AND):** Not regulated for transport by inland waterways.

Sub-section 14.1 to 14.7 do not apply. However, as with all chemicals, packages containing this substance should be handled during loading, transport, and unloading operations in a manner which minimises the risk of damage to and leakage from those packages.

**Section 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Specific regulations:** This safety data sheet has been prepared according to;

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures.

DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.

[cont...]

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POST HYBRIDIZATION WASH 2

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**15.2. Chemical Safety Assessment**

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

**Section 16: Other information**

**Other information**

**Other information:** \* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.3:** H360D: May damage the unborn child.

R61: May cause harm to the unborn child.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

**SAFETY DATA SHEET**  
BOND ENZYME CONCENTRATE 2

Page: 1

Compilation date: 11/SEP/2020

Revision No: 4

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

**Product name:** BOND ENZYME CONCENTRATE 2

**REACH Registration Number:** Registration numbers are not available for some or all of the substance ingredients of this mixture as the substance(s) or its uses are exempt from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Use of substance / mixture:** Use in laboratories - Professional.

**1.3. Details of the supplier of the safety data sheet**

**Company name:** Leica Biosystems Newcastle Ltd

Balliol Business Park West

Benton Lane

Newcastle Upon Tyne

NE12 8EW

United Kingdom

**Tel:** +44 191 2150567

**Fax:** +44 191 2151152

**Email:** [msds@LeicaBiosystems.com](mailto:msds@LeicaBiosystems.com)

**1.4. Emergency telephone number**

**Emergency tel:** USA and Canada: 1-800-424-9300

Outside USA and Canada: +1 703-741-5970

For emergency calls only.

**Section 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification under CLP:** EUH208

**Classification under CHIP:** This product has no classification under CHIP.

**2.2. Label elements**

**Label elements under CLP:**

**Hazard statements:** EUH208: Contains proteinase k. May produce an allergic reaction.

**Label elements under CHIP:**

**Hazard symbols:** No significant hazard.

**Precautionary phrases:** Contains proteinase k. May produce an allergic reaction.

**2.3. Other hazards**

**PBT:** This product is not identified as a PBT/vPvB substance.

**SAFETY DATA SHEET**  
BOND ENZYME CONCENTRATE 2

Page: 2

**Section 3: Composition/information on ingredients**

**3.2. Mixtures**

**Hazardous ingredients: GLYCEROL**

EC	CAS	CHIP Classification	CLP Classification	Percent
200-289-5	56-81-5	Substance with a Community workplace exposure limit.	-	50-70%

**PROTEINASE K**

254-457-8	39450-01-6	Xi: R36/37/38; T: R39; Xn: R40; Xi: R41; Sens.: R42	Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335; Resp. Sens. 1: H334; Eye Dam. 1: H318	<1%
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**Section 4: First aid measures**

**4.1. Description of first aid measures**

**Skin contact:** Wash immediately with plenty of soap and water.

**Eye contact:** Bathe the eye with running water for 15 minutes.

**Ingestion:** Wash out mouth with water.

**Inhalation:** Move to fresh air in case of accidental inhalation of vapours.

**4.2. Most important symptoms and effects, both acute and delayed**

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be irritation of the throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**Delayed / immediate effects:** No data available.

**4.3. Indication of any immediate medical attention and special treatment needed**

**Immediate / special treatment:** Not applicable.

**Section 5: Fire-fighting measures**

**5.1. Extinguishing media**

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used.

**5.2. Special hazards arising from the substance or mixture**

**Exposure hazards:** In combustion emits toxic fumes.

**5.3. Advice for fire-fighters**

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**Section 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions:** Refer to section 8 of SDS for personal protection details. Turn leaking containers leak-side up to prevent the escape of liquid.

[cont...]

**SAFETY DATA SHEET**  
BOND ENZYME CONCENTRATE 2

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**6.2. Environmental precautions**

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

**6.3. Methods and material for containment and cleaning up**

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

**6.4. Reference to other sections**

**Reference to other sections:** Refer to section 8 of SDS. Refer to section 13 of SDS.

**Section 7: Handling and storage**

**7.1. Precautions for safe handling**

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.  
Do not handle in a confined space. Avoid the formation or spread of mists in the air.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed.

**Suitable packaging:** Not applicable.

**7.3. Specific end use(s)**

**Specific end use(s):** Use in laboratories - Professional.

**Section 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Hazardous ingredients:** GLYCEROL

**Workplace exposure limits:**

**Respirable dust**

State	Workplace exposure limits		Respirable dust	
	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	10 mg/m <sup>3</sup>	-	-	-
IE	10 mg/m <sup>3</sup>	-	-	-
US	15 mg/m <sup>3</sup> */5mg/m <sup>3</sup> **	-	-	-
CA	10mg/m <sup>3</sup>	-	-	-
AU	10mg/m <sup>3</sup>	-	-	-
NZ	10mg/m <sup>3</sup>	-	-	-

\* Inhalable dust. \*\*Respirable dust.

**DNEL/PNEC Values**

**DNEL / PNEC** No data available.

**8.2. Exposure controls**

**Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure all engineering measures mentioned in section 7 of SDS are in place.

**Respiratory protection:** Respiratory protection must be available in case of emergency.

[cont...]

# SAFETY DATA SHEET

## BOND ENZYME CONCENTRATE 2

Page: 4

- Hand protection:** Protective gloves.
- Eye protection:** Safety glasses. Ensure eye bath is to hand.
- Skin protection:** Protective clothing.
- Environmental:** Prevent from entering in public sewers or the immediate environment. Ensure all engineering measures mentioned in section 7 of SDS are in place.

### Section 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

- State:** Liquid
- Colour:** Colourless
- Odour:** Odourless
- Evaporation rate:** No data available.
- Oxidising:** No data available.
- Solubility in water:** No data available.
- Viscosity:** No data available.
- Boiling point/range°C:** No data available.
- Flammability limits %: lower:** No data available.
- Flash point°C:** No data available.
- Autoflammability°C:** No data available.
- Relative density:** No data available.
- VOC g/l:** No data available.
- Melting point/range°C:** No data available.
- upper:** No data available.
- Part.coeff. n-octanol/water:** No data available.
- Vapour pressure:** No data available.
- pH:** No data available.

#### 9.2. Other information

**Other information:** Not applicable.

### Section 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

#### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

#### 10.4. Conditions to avoid

**Conditions to avoid:** Heat. Hot surfaces. Flames.

#### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents. Strong acids.

#### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes.

[cont...]

**SAFETY DATA SHEET**  
BOND ENZYME CONCENTRATE 2

Page: 5

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**Hazardous ingredients:**

**GLYCEROL**

DERMAL	GPG	LD50	56,750	mg/kg
ORAL	RAT	LD50	23,000	mg/kg
VAPOURS	RAT	1H LC50	> 11	mg/l

**Symptoms / routes of exposure**

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be irritation of the throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**Delayed / immediate effects:** No data available.

**Other information:** Not applicable.

**Section 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity values:** No data available.

**12.2. Persistence and degradability**

**Persistence and degradability:** Biodegradable.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential:** No bioaccumulation potential.

**12.4. Mobility in soil**

**Mobility:** Readily absorbed into soil.

**12.5. Results of PBT and vPvB assessment**

**PBT identification:** This product is not identified as a PBT/vPvB substance.

**12.6. Other adverse effects**

**Other adverse effects:** Negligible ecotoxicity.

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Recovery operations:** Not applicable.

**Disposal of packaging:** Arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

[cont...]

**SAFETY DATA SHEET**  
BOND ENZYME CONCENTRATE 2

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**Section 14: Transport information**

**Land (ADR/RID):** Not regulated for transport by land.

**Sea (IMDG):** Not regulated for transport by sea.

**Air (IATA):** Not regulated for transport by air.

**Inland Waterways (ADNR/AND):** Not regulated for transport by inland waterways.

Sub-section 14.1 to 14.7 do not apply. However, as with all chemicals, packages containing this substance should be handled during loading, transport, and unloading operations in a manner which minimises the risk of damage to and leakage from those packages.

**Section 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Specific regulations:** This safety data sheet has been prepared according to;

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures.

DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

**15.2. Chemical Safety Assessment**

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

**Section 16: Other information**

**Other information**

**Other information:** \* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.3:** EUH208: Contains Proteinase K. May produce an allergic reaction.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335: May cause respiratory irritation.

R36/37/38: Irritating to eyes, respiratory system and skin.

R39: Danger of very serious irreversible effects.

[cont...]

**SAFETY DATA SHEET**  
BOND ENZYME CONCENTRATE 2

**Page: 7**

R40: Limited evidence of a carcinogenic effect.

R41: Risk of serious damage to eyes.

R42: May cause sensitisation by inhalation.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

**SAFETY DATA SHEET**

BOND ENZYME DILUENT

Page: 1

Compilation date: 20 FEB 2020

Revision No: 4

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

**Product name:** BOND ENZYME DILUENT

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Use of substance / mixture:** Use in laboratories - Professional.

**1.3. Details of the supplier of the safety data sheet**

**Company name:** Leica Biosystems Newcastle Ltd

Balliol Business Park West

Benton Lane

Newcastle Upon Tyne

NE12 8EW

United Kingdom

**Tel:** +44 191 2150567

**Fax:** +44 191 2151152

**Email:** [msds@LeicaBiosystems.com](mailto:msds@LeicaBiosystems.com)

**1.4. Emergency telephone number**

**Emergency tel:** USA and Canada: 1-800-424-9300  
Outside USA and Canada: +1 703-741-5970  
For emergency calls only.

**Section 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification under CLP:** \* Skin Sens. 1A: H317

**Most important adverse effects:** \* May cause an allergic skin reaction.

**2.2. Label elements**

**Label elements:**

**Hazard statements:** \* H317: May cause an allergic skin reaction.

**Hazard pictograms:** \* GHS07: Exclamation mark



**Signal words:** \* Warning

**Precautionary statements:** \* P261: Avoid breathing mist.

\* P272: Contaminated work clothing should not be allowed out of the workplace.

\* P280: Wear protective gloves/protective clothing/eye protection.

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BOND ENZYME DILUENT

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- \* P302+P352: IF ON SKIN: Wash with plenty of water/soap.
- \* P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
- \* P362+P364: Take off contaminated clothing and wash it before reuse.
- \* P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

## 2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

\* **Hazardous ingredients:** 0.035% 2-methylisothiazol-3(2H)-one.

*EC	*CAS	*PBT / WEL	*CLP Classification	*Percent
*220-239-6	*2682-20-4	–	*Acute Tox. 3 (Oral) H301, Acute Tox. 3 (Dermal) H311, Acute Tox. 2 (Inhalation) H330, Skin Corr. 1B H314, Skin Sens. 1A H317 C ≥0.0015%, Eye Dam. 1 H318, STOTS3 H335 (Lungs), Aquatic Acute 1 H400 M-Factor 10, Aquatic Chronic 1 H410 M-Factor 1.	*0.035%

\* **REACH Registration Number:** 01-2120764690-50-XXXX.

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** \* Remove all contaminated clothes and footwear immediately unless stuck to skin.  
Wash immediately with plenty of soap and water. Consult a doctor.

**Eye contact:** \* Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** \* Wash out mouth with water. Consult a doctor.

**Inhalation:** \* Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat.

**Inhalation:** Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** \* Delayed effects can be expected after long-term exposure.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Immediate / special treatment:** Not applicable.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** \* Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

[cont...]

# SAFETY DATA SHEET

BOND ENZYME DILUENT

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## 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes.

## 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** \* Do not attempt to take action without suitable protective clothing - see section 8 of SDS.  
Turn leaking containers leak-side up to prevent the escape of liquid.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS. Refer to section 13 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** \* Avoid direct contact with the substance. Avoid the formation or spread of mists in the air.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed.

**Suitable packaging:** Not applicable.

### 7.3. Specific end use(s)

**Specific end use(s):** Use in laboratories - Professional.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Workplace exposure limits:**

**\*Hazardous ingredients: Glycerol**

*State	*8 hour TWA	*15 min. STEL	*8 hour TWA	*15 min. STEL
*EU	10 mg/m <sup>3</sup>	–	–	–
*UK	10 mg/m <sup>3</sup>	–	–	–
*IE	10 mg/m <sup>3</sup>	–	–	–
*US	5 mg/m <sup>3</sup> * / 15 mg/m <sup>3</sup> **	–	–	–
*CA	10 mg/m <sup>3</sup>	–	–	–
*AU	10 mg/m <sup>3</sup>	–	–	–
*NZ	10 mg/m <sup>3</sup>	–	–	–

\* respirable dust / \*\* inhalable dust

[cont...]

# SAFETY DATA SHEET

BOND ENZYME DILUENT

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## DNEL/PNEC Values

### \*2-methylisothiazol-3(2H)-one

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	21 µg/m <sup>3</sup>	Workers	Local
DNEL	Inhalation (acute/short term)	43 µg/m <sup>3</sup>	Workers	Local
DNEL	Inhalation (repeated dose)	21 µg/m <sup>3</sup>	General Population	Local
DNEL	Inhalation (acute/short term)	43 µg/m <sup>3</sup>	General Population	Local
DNEL	Oral (repeated dose)	27 µg/kg bw/day	General Population	Systemic
DNEL	Oral (acute/short term)	53 µg/kg bw/day	General Population	Systemic

## 8.2. Exposure controls

**Engineering measures:** \* Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Respiratory protection not required.

**Hand protection:** \* Impermeable gloves.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** \* Impermeable protective clothing.

**Environmental:** Prevent from entering public sewers or the immediate environment.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Liquid

**Colour:** Yellow

**Odour:** Odourless

**Evaporation rate:** No data available.

**Oxidising:** No data available.

**Solubility in water:** No data available.

**Viscosity:** No data available.

**Boiling point/range°C:** No data available.

**Melting point/range°C:** No data available.

**Flammability limits %: lower:** No data available.

**upper:** No data available.

**Flash point°C:** No data available.

**Part.coeff. n-octanol/water:** No data available.

**Autoflammability°C:** No data available.

**Vapour pressure:** No data available.

**Relative density:** No data available.

**pH:** No data available.

**VOC g/l:** No data available.

### 9.2. Other information

**Other information:** Not applicable.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

[cont...]

# SAFETY DATA SHEET

## BOND ENZYME DILUENT

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### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

**Conditions to avoid:** Heat.

### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents. Strong acids.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

**\*Hazardous ingredients:**

**\*2-methylisothiazol-3(2H)-one**

DERMAL	RAT	LD50	242	mg/kg
DUST/MIST	RAT	4H LC50	0.1	mg/l
ORAL	RAT	LD50	120	mg/kg

**\*Relevant hazards for product:**

Hazard	Route	Basis
Respiratory/skin sensitisation	-	Hazardous: calculated

**\*Excluded hazards for substance:**

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	-	No hazard: calculated
Acute toxicity (ac. tox. 3)	-	No hazard: calculated
Acute toxicity (ac. tox. 2)	-	No hazard: calculated
Acute toxicity (ac. tox. 1)	-	No hazard: calculated
Skin corrosion/irritation	-	No hazard: calculated
Serious eye damage/irritation	-	No hazard: calculated
Germ cell mutagenicity	-	No hazard: calculated
Carcinogenicity	-	No hazard: calculated
Reproductive toxicity	-	No hazard: calculated

[cont...]

# SAFETY DATA SHEET

## BOND ENZYME DILUENT

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STOT-single exposure	-	No hazard: calculated
STOT-repeated exposure	-	No hazard: calculated
Aspiration hazard	-	No hazard: calculated

### Symptoms / routes of exposure

**Skin contact:** \* There may be irritation and redness at the site of contact.

**Eye contact:** \* There may be irritation and redness. The eyes may water profusely.

**Ingestion:** \* There may be soreness and redness of the mouth and throat.

**Inhalation:** \* Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** \* Delayed effects can be expected after long-term exposure.

**Other information:** Not applicable.

## Section 12: Ecological information

### 12.1. Toxicity

**\*Hazardous ingredients:**

**\*2-methylisothiazol-3(2H)-one**

ALGAE	48H EC50	72.5	µg/l
Freshwater fish	96H LC50	4.77	mg/l
Freshwater invertebrates	48H EC50	934	µg/l
Marine invertebrates	48H EC50	2.98	mg/l

### 12.2. Persistence and degradability

**Persistence and degradability:** Biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

### 12.4. Mobility in soil

**Mobility:** Readily absorbed into soil.

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

**Other adverse effects:** Negligible ecotoxicity.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Recovery operations:** Not applicable.

**Disposal of packaging:** Clean with water. Dispose of as normal industrial waste.

[cont...]

# SAFETY DATA SHEET

BOND ENZYME DILUENT

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**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

**Transport class:** This product does not require a classification for transport.

## Section 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Specific regulations:** \* This safety data sheet has been prepared according to;  
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures.  
REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

**Other information:** \* indicates text in the SDS which has changed since the last revision.

**\*Sections 8, 11 and 12 data:** Source: European Chemicals Agency, <http://echa.europa.eu>

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.