

#### L-Malic Acid Assay Kit (Liquid Ready Reagents)

Kit Safety Information Sheet

Date of issue: 05/06/2013 Revision date: 20/09/2017 Supersedes: 20/03/2017 Version: 1.3

#### **SECTION 1: Kit identification**

#### 1.1. Kit identifier

Product name : L-Malic Acid Assay Kit (Liquid Ready Reagents)

Product code : K-LMALQR

#### 1.2. Details of the supplier of the KIT safety information sheet

Megazyme
Bray Business Park
A98 YV29 Bray - Ireland
T +353 12861220 - F +353 12861264
cs@megazyme.com - www.megazyme.com

#### **SECTION 2: General information**

This Kit should be handled in accordance with good laboratory practices and appropriate personal protective equipment should be used

#### **SECTION 3: Kit contents**

No substance or mixture included in the following Kit components is hazardous according to Regulation (EC) No. 1272/2008 [CLP] and therefore the requirements of Regulation (EU) 2015/830 do not apply

Name	General description	Quantity	Unit
L-Malic Acid Assay Kit (Liquid Ready Reagents) (Bottle 1)	Reagent	1	pcs (pieces)
L-Malic Acid Assay Kit (Liquid Ready Reagents) (Bottle 2)	Reagent	1	pcs (pieces)
L-Malic Acid Assay Kit (Liquid Ready Reagents) (Bottle 3)	Reagent	1	pcs (pieces)

#### **SECTION 4: General advice**

No data available

#### **SECTION 5: Safe handling advice**

Environmental precautions : Avoid release to the environment Storage conditions : Store in a well-ventilated place.

Keep cool.

Precautions for safe handling : Ensure good ventilation of the work station

Wear personal protective equipment

#### SECTION 6: First aid measures

First-aid measures after eye contact : Rinse eyes with water as a precaution

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water

Other medical advice or treatment : Treat symptomatically

#### SECTION 7: Fire fighting measures

Protection during firefighting : Do not attempt to take action without suitable protective equipment

Self-contained breathing apparatus Complete protective clothing

Hazardous decomposition products in case of

fire

: Toxic fumes may be released

#### **SECTION 8: Other information**

12/03/2018 EN (English) 1/17

# L-Malic Acid Assay Kit (Liquid Ready Reagents)

Kit Safety Information Sheet

No data available

12/03/2018 EN (English) 2/17



#### Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 05/06/2013 Revision date: 24/01/2018 Supersedes: 20/03/2017 Version: 1.3

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

#### 1.1. Product identifier

Product form : Mixture

Product name : L-Malic Acid Assay Kit (Liquid Ready Reagents) (Bottle 3)

Product code : K-LMALQR (Bottle 3)

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

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only
Use of the substance/mixture : Use as laboratory reagent

#### 1.2.2. Uses advised against

No additional information available

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

Megazyme
Bray Business Park
A98 YV29 Bray - Ireland
T +353 12861220 - F +353 12861264
cs@megazyme.com - www.megazyme.com

#### 1.4. Emergency telephone number

Emergency number : +353 12861220 [9 am to 5 pm GMT - Monday to Friday]

#### **SECTION 2: Hazards identification**

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

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements : EUH032 - Contact with acids liberates very toxic gas.

Labelling according to: exemption for inner packaging where the contents do not exceed 10ml

No labelling required

#### 2.3. Other hazards

No additional information available

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

12/03/2018 EN (English) 3/17

#### Safety Data Sheet

according to Regulation (EU) 2015/830

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

No additional information available

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

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

Hazardous decomposition products in case of

fire

: Toxic fumes may be released.

#### 5.3. Advice for firefighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

#### **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

#### 6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling

: Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

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

Storage conditions : Store in a well-ventilated place. Keep cool.

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

No additional information available

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Hand protection:

Protective gloves

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)		2 (< 1.5)	EN 374-2

#### Eye protection:

Safety glasses

12/03/2018 EN (English) 4/17

#### Safety Data Sheet

according to Regulation (EU) 2015/830

Туре	Use	Characteristics	Standard
Safety glasses	Droplet	With side shields	EN 166

#### Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition	Standard
Dust mask	Type P1	Protection for Liquid particles	EN 143, EN 149







#### **Environmental exposure controls:**

Avoid release to the environment.

#### **SECTION 9: Physical and chemical properties**

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

Physical state : Liquid
Colour : Colourless.
Odour : None.

Odour threshold : No data available

pH : 6.8

Relative evaporation rate (butylacetate=1) : No data available Melting point : Not applicable Freezing point : No data available Boiling point : No data available

Flash point : > °C

Auto-ignition temperature : No data available : No data available Decomposition temperature Flammability (solid, gas) : Not applicable : No data available Vapour pressure Relative vapour density at 20 °C : No data available Relative density No data available Solubility : Soluble in water. Log Pow : No data available Viscosity, kinematic No data available : No data available Viscosity, dynamic Explosive properties : No data available Oxidising properties : No data available Explosive limits : No data available

#### 9.2. Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

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

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Contact with acids liberates very toxic gas.

12/03/2018 EN (English) 5/17

#### Safety Data Sheet

according to Regulation (EU) 2015/830

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

Acids.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified : Not classified Acute toxicity (dermal) Acute toxicity (inhalation) : Not classified Skin corrosion/irritation : Not classified pH: 6.8 Serious eye damage/irritation : Not classified pH: 6.8 : Not classified Respiratory or skin sensitisation Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

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

No additional information available

#### 12.6. Other adverse effects

No additional information available

#### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

#### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IATA
14.1. UN number	
Not applicable	Not applicable
14.2. UN proper shipping name	
Not applicable	Not applicable

12/03/2018 EN (English) 6/17

#### Safety Data Sheet

according to Regulation (EU) 2015/830

ADR	IATA	
14.3. Transport hazard class(es)		
Not applicable	Not applicable	
14.4. Packing group		
Not applicable	Not applicable	
14.5. Environmental hazards		
Not applicable	Not applicable	
No supplementary information available		

#### 14.6. Special precautions for user

#### - Overland transport

Not applicable

#### - Air transport

Not applicable

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

#### SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

#### **SECTION 16: Other information**

Full text of H- and EUH-statements:

EUH032	Contact with acids liberates very toxic gas.
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SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

12/03/2018 EN (English) 7/17



#### Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 05/06/2013 Revision date: 20/09/2017 Supersedes: 20/03/2017 Version: 1.3

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

#### 1.1. Product identifier

Product form : Mixture

Product name : L-Malic Acid Assay Kit (Liquid Ready Reagents) (Bottle 2)

Product code : K-LMALQR (Bottle 2)

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

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only
Use of the substance/mixture : Use as laboratory reagent

#### 1.2.2. Uses advised against

No additional information available

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

Megazyme
Bray Business Park
A98 YV29 Bray - Ireland
T +353 12861220 - F +353 12861264
cs@megazyme.com - www.megazyme.com

#### 1.4. Emergency telephone number

Emergency number : +353 12861220 [9 am to 5 pm GMT - Monday to Friday]

#### **SECTION 2: Hazards identification**

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

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements : EUH032 - Contact with acids liberates very toxic gas.

EUH210 - Safety data sheet available on request.

#### 2.3. Other hazards

No additional information available

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
3-morpholinopropanesulfonic acid	(CAS-No.) 1132-61-2 (EC-No.) 214-478-5	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Full text of H-statements: see section 16

12/03/2018 EN (English) 8/17

#### Safety Data Sheet

according to Regulation (EU) 2015/830

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

Hazardous decomposition products in case of

: Toxic fumes may be released.

fire

#### 5.3. Advice for firefighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

#### **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment

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

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

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

Storage conditions : Store in a well-ventilated place. Keep cool.

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

No additional information available

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Hand protection:

Protective gloves

12/03/2018 EN (English) 9/17

### Safety Data Sheet

according to Regulation (EU) 2015/830

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)			EN 374-2

#### Eye protection:

Safety glasses

Туре	Use	Characteristics	Standard
Safety glasses	Droplet	With side shields	EN 166

#### Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition	Standard
Dust mask	Type P1	Protection for Liquid particles	EN 143, EN 149







#### **Environmental exposure controls:**

Avoid release to the environment.

#### **SECTION 9: Physical and chemical properties**

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

Physical state : Liquid
Colour : Colourless.
Odour : None.

Odour threshold : No data available

pH : 6.8

Relative evaporation rate (butylacetate=1) : No data available
Melting point : Not applicable
Freezing point : No data available
Boiling point : No data available

Flash point : > °C

Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : Not applicable Vapour pressure No data available Relative vapour density at 20 °C : No data available Relative density : No data available Solubility : Soluble in water. Log Pow : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties : No data available Oxidising properties : No data available Explosive limits : No data available

#### 9.2. Other information

No additional information available

12/03/2018 EN (English) 10/17

#### Safety Data Sheet

according to Regulation (EU) 2015/830

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

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

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Contact with acids liberates very toxic gas.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

Acids.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified
Skin corrosion/irritation : Not classified

pH: 6.8

Serious eye damage/irritation : Not classified

pH: 6.8

: Not classified

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

**SECTION 12: Ecological information** 

#### 12.1. Toxicity

Aspiration hazard

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

#### 12.2. Persistence and degradability

#### 3-morpholinopropanesulfonic acid (1132-61-2)

Persistence and degradability Biodegradability in water: no data available

#### 12.3. Bioaccumulative potential

#### 3-morpholinopropanesulfonic acid (1132-61-2)

Bioaccumulative potential Not established

#### 12.4. Mobility in soil

No additional information available

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

No additional information available

#### 12.6. Other adverse effects

No additional information available

12/03/2018 EN (English) 11/17

#### Safety Data Sheet

according to Regulation (EU) 2015/830

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

#### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IATA
14.1. UN number	
Not applicable	Not applicable
14.2. UN proper shipping name	
Not applicable	Not applicable
14.3. Transport hazard class(es)	
Not applicable	Not applicable
14.4. Packing group	
Not applicable	Not applicable
14.5. Environmental hazards	
Not applicable	Not applicable
No supplementary information available	

#### 14.6. Special precautions for user

#### - Overland transport

Not applicable

#### - Air transport

Not applicable

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

#### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

#### **SECTION 16: Other information**

#### Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation
H335	May cause respiratory irritation.
EUH032	Contact with acids liberates very toxic gas.
EUH210	Safety data sheet available on request.

#### SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

12/03/2018 EN (English) 12/17



#### Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 05/06/2013 Revision date: 20/09/2017 Supersedes: 20/03/2017 Version: 1.3

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

#### **Product identifier**

Product form : Mixture

: L-Malic Acid Assay Kit (Liquid Ready Reagents) (Bottle 1) Product name

Product code : K-LMALQR (Bottle 1)

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

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only Use of the substance/mixture : Use as laboratory reagent

#### 1.2.2. Uses advised against

No additional information available

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

Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861264

cs@megazyme.com - www.megazyme.com

#### 1.4. **Emergency telephone number**

**Emergency number** : +353 12861220 [9 am to 5 pm GMT - Monday to Friday]

#### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### Adverse physicochemical, human health and environmental effects

No additional information available

#### Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

**EUH-statements** : EUH032 - Contact with acids liberates very toxic gas.

EUH210 - Safety data sheet available on request.

#### 2.3. Other hazards

No additional information available

#### **SECTION 3: Composition/information on ingredients**

#### **Substances**

Not applicable

#### **Mixtures** 3.2.

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Glycylglycine	(CAS-No.) 556-50-3 (EC-No.) 209-127-8	1 - 5	Eye Irrit. 2, H319

Full text of H-statements: see section 16

#### **SECTION 4: First aid measures**

#### **Description of first aid measures**

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

12/03/2018 EN (English) 13/17

#### Safety Data Sheet

according to Regulation (EU) 2015/830

First-aid measures after eye contact : Rinse eyes with water as a precaution.

: Call a poison center or a doctor if you feel unwell. First-aid measures after ingestion

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

No additional information available

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

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### **Extinguishing media**

: Water spray. Dry powder. Foam. Carbon dioxide. Suitable extinguishing media

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

Hazardous decomposition products in case of fire

: Toxic fumes may be released.

#### 5.3. Advice for firefighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

#### **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

**Emergency procedures** : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### **Environmental precautions**

Avoid release to the environment.

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

: Take up liquid spill into absorbent material. Methods for cleaning up

Other information : Dispose of materials or solid residues at an authorized site.

#### Reference to other sections

For further information refer to section 13.

#### **SECTION 7: Handling and storage**

#### **Precautions for safe handling**

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

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

Storage conditions : Store in a well-ventilated place. Keep cool.

#### Specific end use(s)

No additional information available

#### SECTION 8: Exposure controls/personal protection

#### **Control parameters**

No additional information available

#### **Exposure controls**

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Hand protection:

Protective gloves

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)			EN 374-2

#### Eye protection:

12/03/2018 14/17 EN (English)

#### Safety Data Sheet

according to Regulation (EU) 2015/830

#### Safety glasses

Туре	Use	Characteristics	Standard
Safety glasses	Droplet	With side shields	EN 166

#### Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition	Standard
Dust mask	Type P1	Protection for Liquid particles	EN 143, EN 149







#### **Environmental exposure controls:**

Avoid release to the environment.

#### **SECTION 9: Physical and chemical properties**

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

Physical state : Liquid
Colour : Colourless.
Odour : None.

Odour threshold : No data available

pH : 10

Relative evaporation rate (butylacetate=1) : No data available Melting point : Not applicable Freezing point : No data available Boiling point : No data available

Flash point : > °C

Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : Not applicable Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available Solubility : Soluble in water. Log Pow : No data available Viscosity, kinematic : No data available Viscosity, dynamic No data available Explosive properties No data available Oxidising properties : No data available **Explosive limits** : No data available

#### 9.2. Other information

No additional information available

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

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

#### 10.2. Chemical stability

Stable under normal conditions.

12/03/2018 EN (English) 15/17

#### Safety Data Sheet

according to Regulation (EU) 2015/830

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified
Skin corrosion/irritation : Not classified

pH: 10

Serious eye damage/irritation : Not classified

pH: 10

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

#### 12.2. Persistence and degradability

#### Glycylglycine (556-50-3)

Persistence and degradability Biodegradability in water: no data available.

#### 12.3. Bioaccumulative potential

#### Glycylglycine (556-50-3)

Bioaccumulative potential Not established.

#### 12.4. Mobility in soil

No additional information available

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

No additional information available

#### 12.6. Other adverse effects

No additional information available

#### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

12/03/2018 EN (English) 16/17

#### Safety Data Sheet

according to Regulation (EU) 2015/830

#### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IATA	
14.1. UN number		
Not applicable	Not applicable	
14.2. UN proper shipping name		
Not applicable	Not applicable	
14.3. Transport hazard class(es)		
Not applicable	Not applicable	
14.4. Packing group		
Not applicable	Not applicable	
14.5. Environmental hazards		
Not applicable	Not applicable	
No supplementary information available		

#### 14.6. Special precautions for user

#### - Overland transport

Not applicable

#### - Air transport

Not applicable

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

#### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No additional information available

#### **SECTION 16: Other information**

#### Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H319	Causes serious eye irritation	
EUH032	Contact with acids liberates very toxic gas.	
EUH210	Safety data sheet available on request.	

#### SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

12/03/2018 EN (English) 17/17