

# Identification of the substance/mixture and of the company/undertaking

1. Kit identifier

Kit name: Mitochondrial Membrane Potential Apoptosis Kit, with LumiTracker® Mito Red

CMXRos & Annexin V-AF 488

Catalog number(s): 21372

Composition/information on

DMSO (dimethyl sulfoxide), labeling grade

components: Annexin V Binding Buffer, 5x Annexin V-AF 488 conjugate

LumiTracker® Mito Red CMXRos

# 2. Relevant identified uses of the kit and uses advised against

The ready-to-use kit for assaying two key indicators of apoptosis: the externalization of phosphatidylserine and alterations in mitochondrial membrane potential.

# 3. Details of the supplier of the Safety Data Sheet

Supplier: Lumiprobe Corporation

201 International Circle, Suite 135 Hunt Valley, Maryland 21030,

USA

+1 888 973 6353 order@lumiprobe.com

### 4. Emergency telephone number

+1 888 973 6353 ext 2

The set safety data sheet includes safety data sheets of all components



# 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name: DMSO (dimethyl sulfoxide), labeling grade

Catalog number(s): 15050

Substance name: DMSO (dimethyl sulfoxide), labeling grade

Molecular formula: C2H6OS
Molecular weight: 78.14
CAS number: 67-68-5
EC number: N/A
REACH registration N/A

number:

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

Analytical reagent. Reagent for research and development.

### 1.3. Details of the supplier of the Safety Data Sheet

Supplier: Lumiprobe Corporation

201 International Circle, Suite 135,

Hunt Valley, Maryland 21030,

Maryland 21030 USA

+1 888 9736353

order@lumiprobe.com

Lumiprobe GmbH Feodor-Lynen-Str. 23 30625 Hannover

Germany

+49 511 16596811 de@lumiprobe.com

### 1.4. Emergency telephone number

+1 888 973 6353 ext 2; +49 (0)511 16596812

### 2. Hazards identification

### 2.1. Classification of the substance or mixture

The substance is not hazardous according to EU regulation (EC) No 1272/2008 or GHS regulations., and it does not contain any hazardous substance at more than 1% by weight. US Export Control Classification Number (ECCN) - EAR99 - The substance does not require a license.

### 2.2. Label elements

Not applicable

### 2.3. Other hazards

No other hazards identified

# 3. Composition/information on ingredients

### 3.1. Substances

Product name: DMSO (dimethyl sulfoxide), labeling grade

CAS number: 67-68-5 Weight %: >95 %

# 3.2. Mixtures

Not applicable.



### 4. First aid measures

### 4.1. Description of first aid measures

General notes Wash thoroughly after use.

Inhalation Move individual to fresh air and seek medical

advice.

Skin contact Wash affected area with water for 15 minutes

and seek medical advice if irritation occurs.

Eye contact Flush eye with water for 15 minutes and seek

medical advice if irritation occurs.

Ingestion Seek medical advice.

Self-protection of first Wear protective gloves.

aider

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

We are not aware of any reported health hazards for this product.

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

No immediate medical attention or special treatment indicated.

# 5. Firefighting measure

# 5.1. Extinguishing media

Suitable extinguishing media Depending on the surrounding fire. The substance is not flammable. Unsuitable extinguishing media Not known.

# 5.2. Special hazards arising from the substance or mixture

No special fire hazards.

### 5.3. Advice for firefighters

No specific precautions arising from the substance.

# 6. Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel avoid breathing in dust. Wear gloves and safety glasses. For emergency responders avoid breathing in dust. Wear gloves and safety glasses.

## 6.2. Environmental precautions

Avoid release into environment and sewage water system.

# 6.3. Methods and material for containment and cleaning up

Small spill Sweep up spilled substance promptly and

dispose according to local regulations.

Large spill Avoid dispersal. Sweep up spilled substance

promptly and dispose according to local

regulations.

### 6.4. Reference to other sections

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

# 7. Handling and storage



# 7.1. Precautions for safe handling

Wear protective equipment as specified in section 8.

Do not eat, drink and smoke in work areas. Thoroughly wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage: 12 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

# 7.3. Specific end use(s)

Analytical reagent. Reagent for research and development.

# 8. Exposure controls/personal protection

### 8.1. Control parameters

No occupational exposure limits known.

### 8.2. Exposure controls

Appropriate Work in a fume hood.

engineering controls:

Personal protection: Work in a fume hood with usual precautions.

Eye/face protection: Wear safety glasses.

Skin protection: Wear chemical-resistant gloves. Wear a lab coat

and appropriate shoes.

Respiratory

protection:

Work in a fume hood

Environmental

Do not drain into sewage system

exposure controls:

# 9. Physical and chemical properties

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

**Appearance** 

Odour Odourless
Odour threshold Not available
pH Not available
Melting point / Not available
freezing point

Initial boiling point and Not available

boiling range

Flash point Substance does not sustain combustion.

Evaporation rate Not available Flammability (solid, Non-flammable

gas)

Upper/lower Not available

flammability or explosive limits

Vapour pressure Not available Vapour density Not available



Relative density Not available

Solubility(ies) miscible with water, many organic solvents

Partition coefficient: n- Not available

octanol/water

Auto-ignition

Not available

temperature

Decomposition

Not available

temperature

Viscosity Not available Explosive properties Not available Oxidising properties Not available

### 9.2. Other information

Not applicable

# 10. Stability and Reactivity

### 10.1. Reactivity

No specific test data available for this substance.

# 10.2. Chemical stability

The product is stable under normal conditions of storage and use.

# 10.3. Possibility of hazardous reactions

No hazardous reactions will occur under normal conditions of storage and use.

### 10.4. Conditions to avoid

No specific data.

### 10.5. Incompatible materials

No specific data.

# 10.6. Hazardous decomposition products

No dangerous decomposition products should be produced under normal conditions of storage and use.

# 11. Toxicological information

The toxicological properties of this substance have not been thoroughly investigated.

# 12. Ecological information

# 12.1. Toxicity

No test data available.

### 12.2. Persistence and degradability

No test data available.

### 12.3. Bioaccumulative potential

No test data available.

# 12.4. Mobility in soil

No test data available.

### 12.5. Results of PBT and vPvB assessment



No test data available.

### 12.6. Other adverse effects

No test data available.

### 12.7. Additional information

We are not aware of any ecological hazards arising from this substance.

# 13. Disposal considerations

### 13.1. Waste treatment methods

Waste should not be disposed of by release to sewers. Consult local, state or national regulations for applicable requirements.

# 14. Transport Information

### 14.1. UN number

Not regulated.

# 14.2. UN proper shipping name

Not applicable.

# 14.3. Transport hazard class(es)

Not applicable.

# 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

No.

# 14.6. Special precautions for user

Not available.

### 14.7 IATA/ICAO

Not regulated.

# 15. Regulatory information

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

The substance is not listed under relevant regulations.

### 15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance by the supplier.

# 16. Other information

Date of issue/revision 19.05.2024

Version



# 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name: Annexin V Binding Buffer, 5x

Catalog number(s): 83215

Substance name: Annexin V Binding Buffer, 5x

Molecular formula: n.a.

Molecular weight: n.a.

CAS number: n.a.

EC number: N/A

REACH registration N/A

number:

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

Analytical reagent. Reagent for research and development.

### 1.3. Details of the supplier of the Safety Data Sheet

Supplier: Lumiprobe Corporation

201 International Circle, Suite 135, Feodor-Lynen-Str. 23 Hunt Valley, 30625 Hannover

Hunt Valley, Maryland 21030,

USA

+1 888 9736353 order@lumiprobe.com Germany +49 511 16596811 de@lumiprobe.com

Lumiprobe GmbH

### 1.4. Emergency telephone number

+1 888 973 6353 ext 2; +49 (0)511 16596812

### 2. Hazards identification

### 2.1. Classification of the substance or mixture

The substance is not hazardous according to EU regulation (EC) No 1272/2008 or GHS regulations., and it does not contain any hazardous substance at more than 1% by weight. US Export Control Classification Number (ECCN) - EAR99 - The substance does not require a license.

### 2.2. Label elements

Not applicable

### 2.3. Other hazards

No other hazards identified

# 3. Composition/information on ingredients

### 3.1. Substances

Product name: Annexin V Binding Buffer, 5x

CAS number: n.a. Weight %: >95 %

# 3.2. Mixtures

Not applicable.



### 4. First aid measures

### 4.1. Description of first aid measures

General notes Wash thoroughly after use.

Inhalation Move individual to fresh air and seek medical

advice.

Skin contact Wash affected area with water for 15 minutes

and seek medical advice if irritation occurs.

Eye contact Flush eye with water for 15 minutes and seek

medical advice if irritation occurs.

Ingestion Seek medical advice.

Self-protection of first Wear protective gloves.

aider

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

We are not aware of any reported health hazards for this product.

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

No immediate medical attention or special treatment indicated.

# 5. Firefighting measure

# 5.1. Extinguishing media

Suitable extinguishing media Depending on the surrounding fire. The substance is not flammable. Unsuitable extinguishing media Not known.

# 5.2. Special hazards arising from the substance or mixture

No special fire hazards.

### 5.3. Advice for firefighters

No specific precautions arising from the substance.

# 6. Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel avoid breathing in dust. Wear gloves and safety glasses. For emergency responders avoid breathing in dust. Wear gloves and safety glasses.

## 6.2. Environmental precautions

Avoid release into environment and sewage water system.

# 6.3. Methods and material for containment and cleaning up

Small spill Sweep up spilled substance promptly and

dispose according to local regulations.

Large spill Avoid dispersal. Sweep up spilled substance

promptly and dispose according to local

regulations.

### 6.4. Reference to other sections

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

# 7. Handling and storage



### 7.1. Precautions for safe handling

Wear protective equipment as specified in section 8.

Do not eat, drink and smoke in work areas. Thoroughly wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

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

n.a.

### 7.3. Specific end use(s)

Analytical reagent. Reagent for research and development.

# 8. Exposure controls/personal protection

### 8.1. Control parameters

No occupational exposure limits known.

# 8.2. Exposure controls

Appropriate Work in a fume hood.

engineering controls:

Personal protection: Work in a fume hood with usual precautions.

Eye/face protection: Wear safety glasses.

Skin protection: Wear chemical-resistant gloves. Wear a lab coat

and appropriate shoes.

Respiratory

protection:

Work in a fume hood

Environmental exposure controls:

Do not drain into sewage system

# 9. Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

**Appearance** 

Odour Odourless
Odour threshold Not available
pH Not available
Melting point / Not available

freezing point

Initial boiling point and Not available

boiling range

Flash point Substance does not sustain combustion.

Evaporation rate Not available Flammability (solid, Non-flammable

gas)

Upper/lower Not available

flammability or explosive limits

Vapour pressure Not available
Vapour density Not available
Relative density Not available



Solubility(ies) n.a.

Partition coefficient: n- Not available

octanol/water

Auto-ignition Not available

temperature

Decomposition Not available

temperature

Viscosity Not available Explosive properties Not available Oxidising properties Not available

### 9.2. Other information

Not applicable

# 10. Stability and Reactivity

### 10.1. Reactivity

No specific test data available for this substance.

### 10.2. Chemical stability

The product is stable under normal conditions of storage and use.

# 10.3. Possibility of hazardous reactions

No hazardous reactions will occur under normal conditions of storage and use.

### 10.4. Conditions to avoid

No specific data.

# 10.5. Incompatible materials

No specific data.

### 10.6. Hazardous decomposition products

No dangerous decomposition products should be produced under normal conditions of storage and use.

# 11. Toxicological information

The toxicological properties of this substance have not been thoroughly investigated.

# 12. Ecological information

### 12.1. Toxicity

No test data available.

### 12.2. Persistence and degradability

No test data available.

# 12.3. Bioaccumulative potential

No test data available.

# 12.4. Mobility in soil

No test data available.

# 12.5. Results of PBT and vPvB assessment

No test data available.



### 12.6. Other adverse effects

No test data available.

#### 12.7. Additional information

We are not aware of any ecological hazards arising from this substance.

# 13. Disposal considerations

### 13.1. Waste treatment methods

Waste should not be disposed of by release to sewers. Consult local, state or national regulations for applicable requirements.

# 14. Transport Information

### 14.1. UN number

Not regulated.

# 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

Not applicable.

# 14.4. Packing group

Not applicable.

# 14.5. Environmental hazards

No.

# 14.6. Special precautions for user

Not available.

### 14.7 IATA/ICAO

Not regulated.

# 15. Regulatory information

# **15.1.** Safety, health and environmental regulations/legislation specific for the substance or mixture The substance is not listed under relevant regulations.

# 15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance by the supplier.

# 16. Other information

Date of issue/revision 19.05.2024

Version



# 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name: Annexin V-AF 488 conjugate

Catalog number(s): 11515, 21515

Substance name: Annexin V-AF 488 conjugate

Molecular formula: n.a.

Molecular weight: n.a.

CAS number: n.a.

EC number: N/A

REACH registration N/A

number:

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

Analytical reagent. Reagent for research and development.

### 1.3. Details of the supplier of the Safety Data Sheet

Supplier: Lumiprobe Corporation

201 International Circle, Suite 135,

Hunt Valley, Maryland 21030

Maryland 21030, USA

+1 888 9736353

order@lumiprobe.com

Lumiprobe GmbH Feodor-Lynen-Str. 23 30625 Hannover

Germany

+49 511 16596811 de@lumiprobe.com

### 1.4. Emergency telephone number

+1 888 973 6353 ext 2; +49 (0)511 16596812

### 2. Hazards identification

### 2.1. Classification of the substance or mixture

The substance is not hazardous according to EU regulation (EC) No 1272/2008 or GHS regulations., and it does not contain any hazardous substance at more than 1% by weight. US Export Control Classification Number (ECCN) - EAR99 - The substance does not require a license.

### 2.2. Label elements

Not applicable

### 2.3. Other hazards

No other hazards identified

# 3. Composition/information on ingredients

### 3.1. Substances

Product name: Annexin V-AF 488 conjugate

CAS number: n.a. Weight %: >95 %

# 3.2. Mixtures

Not applicable.



### 4. First aid measures

### 4.1. Description of first aid measures

General notes Wash thoroughly after use.

Inhalation Move individual to fresh air and seek medical

advice.

Skin contact Wash affected area with water for 15 minutes

and seek medical advice if irritation occurs.

Eye contact Flush eye with water for 15 minutes and seek

medical advice if irritation occurs.

Ingestion Seek medical advice.

Self-protection of first Wear protective gloves.

aider

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

We are not aware of any reported health hazards for this product.

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

No immediate medical attention or special treatment indicated.

# 5. Firefighting measure

# 5.1. Extinguishing media

Suitable extinguishing media Depending on the surrounding fire. The substance is not flammable. Unsuitable extinguishing media Not known.

# 5.2. Special hazards arising from the substance or mixture

No special fire hazards.

### 5.3. Advice for firefighters

No specific precautions arising from the substance.

# 6. Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel avoid breathing in dust. Wear gloves and safety glasses. For emergency responders avoid breathing in dust. Wear gloves and safety glasses.

## 6.2. Environmental precautions

Avoid release into environment and sewage water system.

# 6.3. Methods and material for containment and cleaning up

Small spill Sweep up spilled substance promptly and

dispose according to local regulations.

Large spill Avoid dispersal. Sweep up spilled substance

promptly and dispose according to local

regulations.

### 6.4. Reference to other sections

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

# 7. Handling and storage



# 7.1. Precautions for safe handling

Wear protective equipment as specified in section 8.

Do not eat, drink and smoke in work areas. Thoroughly wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

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

Transportation: at room temperature for 1 week. Store at -20°C 9 months.

### 7.3. Specific end use(s)

Analytical reagent. Reagent for research and development.

# 8. Exposure controls/personal protection

### 8.1. Control parameters

No occupational exposure limits known.

### 8.2. Exposure controls

Appropriate Work in a fume hood.

engineering controls:

Personal protection: Work in a fume hood with usual precautions.

Eye/face protection: Wear safety glasses.

Skin protection: Wear chemical-resistant gloves. Wear a lab coat

and appropriate shoes.

Respiratory

protection:

Work in a fume hood

Environmental

exposure controls:

Do not drain into sewage system

# 9. Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

**Appearance** 

Odour Odourless
Odour threshold Not available
pH Not available
Melting point / Not available

freezing point

Initial boiling point and Not available

boiling range

Flash point Substance does not sustain combustion.

Evaporation rate Not available Flammability (solid, Non-flammable

gas)

Upper/lower Not available

flammability or explosive limits

Vapour pressure Not available
Vapour density Not available
Relative density Not available



Solubility(ies) good in water

Partition coefficient: n- Not available

octanol/water

Auto-ignition Not available

temperature

Decomposition Not available

temperature

Viscosity Not available Explosive properties Not available Oxidising properties Not available

### 9.2. Other information

Not applicable

# 10. Stability and Reactivity

### 10.1. Reactivity

No specific test data available for this substance.

### 10.2. Chemical stability

The product is stable under normal conditions of storage and use.

# 10.3. Possibility of hazardous reactions

No hazardous reactions will occur under normal conditions of storage and use.

### 10.4. Conditions to avoid

No specific data.

# 10.5. Incompatible materials

No specific data.

### 10.6. Hazardous decomposition products

No dangerous decomposition products should be produced under normal conditions of storage and use.

# 11. Toxicological information

The toxicological properties of this substance have not been thoroughly investigated.

# 12. Ecological information

### 12.1. Toxicity

No test data available.

### 12.2. Persistence and degradability

No test data available.

# 12.3. Bioaccumulative potential

No test data available.

### 12.4. Mobility in soil

No test data available.

# 12.5. Results of PBT and vPvB assessment

No test data available.



### 12.6. Other adverse effects

No test data available.

#### 12.7. Additional information

We are not aware of any ecological hazards arising from this substance.

# 13. Disposal considerations

### 13.1. Waste treatment methods

Waste should not be disposed of by release to sewers. Consult local, state or national regulations for applicable requirements.

# 14. Transport Information

### 14.1. UN number

Not regulated.

# 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

Not applicable.

# 14.4. Packing group

Not applicable.

# 14.5. Environmental hazards

No.

# 14.6. Special precautions for user

Not available.

### 14.7 IATA/ICAO

Not regulated.

# 15. Regulatory information

# **15.1.** Safety, health and environmental regulations/legislation specific for the substance or mixture The substance is not listed under relevant regulations.

# 15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance by the supplier.

## 16. Other information

Date of issue/revision 19.05.2024

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# Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

LumiTracker® Mito Red CMXRos Product name:

Catalog number(s): 2251-500ug, 2251-50ug

Substance name: LumiTracker® Mito Red CMXRos

Molecular formula: C32H32Cl2N2O

Molecular weight: 531.53

CAS number: 167095-09-2

EC number: N/A **REACH** registration

number:

N/A

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

Analytical reagent. Reagent for research and development.

### 1.3. Details of the supplier of the Safety Data Sheet

Supplier: Lumiprobe Corporation

201 International Circle, Suite 135,

Hunt Valley, Maryland 21030,

**USA** 

+1 888 9736353

order@lumiprobe.com

Lumiprobe GmbH Feodor-Lynen-Str. 23 30625 Hannover

Germany

+49 511 16596811 de@lumiprobe.com

### 1.4. Emergency telephone number

+1 888 973 6353 ext 2; +49 (0)511 16596812

### **Hazards identification**

### 2.1. Classification of the substance or mixture

The substance is not hazardous according to EU regulation (EC) No 1272/2008 or GHS regulations., and it does not contain any hazardous substance at more than 1% by weight. US Export Control Classification Number (ECCN) - EAR99 - The substance does not require a license.

### 2.2. Label elements

Not applicable

### 2.3. Other hazards

No other hazards identified

#### 3. Composition/information on ingredients

### 3.1. Substances

Product name: LumiTracker® Mito Red CMXRos

CAS number: 167095-09-2

Weight %: >95 %

# 3.2. Mixtures

Not applicable.



### 4. First aid measures

### 4.1. Description of first aid measures

General notes Wash thoroughly after use.

Inhalation Move individual to fresh air and seek medical

advice.

Skin contact Wash affected area with water for 15 minutes

and seek medical advice if irritation occurs.

Eye contact Flush eye with water for 15 minutes and seek

medical advice if irritation occurs.

Ingestion Seek medical advice.

Self-protection of first Wear protective gloves.

aider

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

We are not aware of any reported health hazards for this product.

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

No immediate medical attention or special treatment indicated.

# 5. Firefighting measure

# 5.1. Extinguishing media

Suitable extinguishing media Depending on the surrounding fire. The substance is not flammable. Unsuitable extinguishing media Not known.

# 5.2. Special hazards arising from the substance or mixture

No special fire hazards.

### 5.3. Advice for firefighters

No specific precautions arising from the substance.

# 6. Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel avoid breathing in dust. Wear gloves and safety glasses. For emergency responders avoid breathing in dust. Wear gloves and safety glasses.

## 6.2. Environmental precautions

Avoid release into environment and sewage water system.

# 6.3. Methods and material for containment and cleaning up

Small spill Sweep up spilled substance promptly and

dispose according to local regulations.

Large spill Avoid dispersal. Sweep up spilled substance

promptly and dispose according to local

regulations.

### 6.4. Reference to other sections

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

# 7. Handling and storage



# 7.1. Precautions for safe handling

Wear protective equipment as specified in section 8.

Do not eat, drink and smoke in work areas. Thoroughly wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

# 7.2. Conditions for safe storage, including any incompatibilities

24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

# 7.3. Specific end use(s)

Analytical reagent. Reagent for research and development.

# **Exposure controls/personal protection**

### 8.1. Control parameters

No occupational exposure limits known.

### 8.2. Exposure controls

Work in a fume hood. Appropriate

engineering controls:

Personal protection: Work in a fume hood with usual precautions.

Eye/face protection: Wear safety glasses.

Skin protection: Wear chemical-resistant gloves. Wear a lab coat

and appropriate shoes.

Respiratory

protection:

Work in a fume hood

Environmental

Do not drain into sewage system

exposure controls:

#### 9. Physical and chemical properties

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

**Appearance** 

Odour Odourless Odour threshold Not available Not available рH Not available Melting point / freezing point

Initial boiling point and Not available

boiling range

Flash point Substance does not sustain combustion.

Not available Evaporation rate Flammability (solid, Non-flammable

gas)

Upper/lower Not available

flammability or explosive limits

Not available Vapour pressure

Vapour density Not available



Relative density Not available

Solubility(ies) n.a.

Partition coefficient: n- Not available

octanol/water

Auto-ignition

Not available

temperature

Decomposition

Not available

temperature

Viscosity Not available Explosive properties Not available Oxidising properties Not available

# 9.2. Other information

Not applicable

# 10. Stability and Reactivity

### 10.1. Reactivity

No specific test data available for this substance.

# 10.2. Chemical stability

The product is stable under normal conditions of storage and use.

# 10.3. Possibility of hazardous reactions

No hazardous reactions will occur under normal conditions of storage and use.

### 10.4. Conditions to avoid

No specific data.

### 10.5. Incompatible materials

No specific data.

# 10.6. Hazardous decomposition products

No dangerous decomposition products should be produced under normal conditions of storage and use.

# 11. Toxicological information

The toxicological properties of this substance have not been thoroughly investigated.

# 12. Ecological information

# 12.1. Toxicity

No test data available.

### 12.2. Persistence and degradability

No test data available.

### 12.3. Bioaccumulative potential

No test data available.

# 12.4. Mobility in soil

No test data available.

### 12.5. Results of PBT and vPvB assessment



No test data available.

### 12.6. Other adverse effects

No test data available.

### 12.7. Additional information

We are not aware of any ecological hazards arising from this substance.

# 13. Disposal considerations

### 13.1. Waste treatment methods

Waste should not be disposed of by release to sewers. Consult local, state or national regulations for applicable requirements.

# 14. Transport Information

### 14.1. UN number

Not regulated.

# 14.2. UN proper shipping name

Not applicable.

# 14.3. Transport hazard class(es)

Not applicable.

# 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

No.

# 14.6. Special precautions for user

Not available.

### 14.7 IATA/ICAO

Not regulated.

# 15. Regulatory information

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

The substance is not listed under relevant regulations.

### 15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance by the supplier.

# 16. Other information

Date of issue/revision 19.05.2024

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