

Reviewed: 22-Nov-2023 Expiry: 22-Nov-2026

# Safety Data Sheet

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

#### Identification of the substance or mixture

Product code 8169G3

Product name 10X DNase 1 Buffer

## Company/undertaking identification

Thermo Fisher Scientific Baltics UAB
V.Graiciuno 8
LT-02241 Vilnius
Lithuania
CANADA L7L 6A4
Tel.: +370 5 2602131
Lithuania
Life Technologies
5250 Mainway Drive
Burlington, ONT
CANADA L7L 6A4
800/263-6236

Fax.: +370 5 2602142

24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and

[or Dangerous Goods] Incident. Spill, Leak, Fire, 1-703-527-3887

**Exposure, or Accident. Call CHEMTREC**Outside the USA + Canada: 1-703-741-5970

Country Specific Emergency Number (if available):

For research use only. Not for use in diagnostic procedures

## **SECTION 2: Hazards identification**

GHS Classification

Signal Word

None

**Hazard pictograms** 

None

Health hazards

Not Hazardous

Physical hazards

Not Hazardous

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**Revision date** 05-Dec-2019 **Product code** 8169G3

Page 1/8 Product name 10X DNase 1 Buffer

#### **Environmental hazards**

Not Hazardous

## **Hazard Statements**

Not Applicable

# **Precautionary Statements**

## Prevention

Not Applicable

## Response

Not Applicable

# Storage

Not Applicable

## Disposal

Not Applicable

## Other hazards

Not Applicable

#### **HMIS**

Health	0
Flammability	0
Reactivity	0

# SECTION 3: Composition/information on ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

Revision date Product code 05-Dec-2019 8169G3

#### SECTION 4: First aid measures

#### Description of first aid measures

Skin contact Rinse skin with water. Immediate medical attention is not required.

Rinse cautiously with water for several minutes. Remove contact lenses, if present Eye contact

and easy to do. Continue rinsing.

Not expected to present a significant ingestion hazard under anticipated conditions Ingestion

of normal use. If you feel unwell, seek medical advice.

Inhalation Not expected to be an inhalation hazard under anticipated conditions of normal

use of this material. Consult a physician if necessary.

Treat symptomatically. Notes to Physician

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

Not Applicable

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

None.

## SECTION 5: Firefighting measures

## **Extinguishing media**

Suitable extinguishing media Unsuitable extinguishing media Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

No information available.

## Special hazards arising from the substance or mixture

Not known

## Protective equipment and precautions for firefighters

Standard procedure for chemical fires.

### SECTION 6: Accidental release measures

# Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment

Use personal protection equipment See section 8 for more information

#### **Environmental precautions**

No special environmental precautions required.

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

Soak up with inert absorbent material.

## Reference to other sections

Revision date

Product code

See section 8 for more information.

8169G3

05-Dec-2019

## SECTION 7: Handling and storage

## Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

## Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

## Specific end use(s)

For research use only. Not for use in diagnostic procedures.

## SECTION 8: Exposure controls/personal protection

## Control parameters

**Exposure Limits** Contains no substances with occupational exposure limit values.

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

#### **Exposure controls**

## **Personal Protective Equipment**

**Respiratory protection** In case of insufficient ventilation wear respirators and components tested and

approved under appropriate government standards.

**Hand protection** Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

**Eye protection** Tight sealing safety goggles.

**Skin and Body Protection** Wear suitable protective clothing.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

## **Environmental exposure controls**

No special environmental precautions required.

## SECTION 9: Physical and chemical properties

°F No data

## Information on basic physical and chemical properties

Appearance liquid

Odor No data available

Odor Threshold No data Molecular Weight No data

**pH** No data available

Melting point / melting range°C No data°F No dataBoiling point / boiling range°C No data°F No dataFlash point°C No data°F No dataAutoignition Temperature°C No data°F No data

Autoignition Temperature °C No data

Decomposition temperature °C No data

C No data

No data

Flammability (solid, gas) No data available

Upper explosion limit
Lower explosion limit
Vapor Pressure
Vapor density
Relative density
No data

Solubility No data available Partition coefficient: No data available

n-octanol/water

Viscosity No data Explosive properties No data Oxidizing properties No data

Other information No data available.

## SECTION 10: Stability and reactivity

Reactivity None known.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

**Conditions to avoid** No information available.

**Incompatible materials**No dangerous reaction known under conditions of normal use.

Hazardous decomposition

products

No data available.

## SECTION 11: Toxicological information

## Information on toxicological effects

There is no evidence available indicating acute toxicity.

#### **Principal Routes of Exposure**

**Acute toxicity** Data are conclusive but insufficient for classification.

**Skin corrosion/irritation** Data are conclusive but insufficient for classification

Serious eye damage/irritation Data are conclusive but insufficient for classification

Respiratory or skin

sensitization

Data are conclusive but insufficient for classification

Specific target organ toxicity Data are conclusive but insufficient for classification

(STOT) – single exposure

Specific target organ toxicity Data are conclusive but insufficient for classification

(STOT) - repeated exposure

**Carcinogenicity** Data are conclusive but insufficient for classification

Germ cell mutagenicity Data are conclusive but insufficient for classification

Reproductive toxicity Data are conclusive but insufficient for classification

Aspiration hazard Data are conclusive but insufficient for classification

#### SECTION 12: Ecological information

#### **Ecotoxicity**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Mobility in soil No information available.

Persistence and degradability No information available.

**Bioaccumulative potential** No information available.

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other adverse effects No information available.

## SECTION 13: Disposal considerations

#### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations

## **SECTION 14: Transport information**

#### IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

UN number
UN proper shipping name
Transport hazard class(es)
Packing group

Not Applicable
Not Applicable
Not Applicable

#### **Environmental hazards**

Not Applicable

## Special precautions for user

Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not Applicable.

## SECTION 15: Regulatory information

## **US Federal Regulations**

#### **SARA 313**

This product is not regulated by SARA.

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs

### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## **WHMIS Hazard Class**

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

## National Regulations - Brazil

Not regulated

#### SECTION 16: Other information

**Reason for revision** SDS sections updated.

Revision number

Revision date 05-Dec-2019

For research use only. Not for use in diagnostic procedures.

#### References

- ECHA: http://echa.europa.eu/
- TOXNET: http://toxnet.nlm.nih.gov/
- eChemPortal: http://www.echemportal.org/
- LOLI database: https://www.chemadvisor.com/loli-database

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

**End of Safety Data Sheet** 



# Safety Data Sheet

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

#### Identification of the substance or mixture

Product code 9077G

**Product name** 5M Ammonium Acetate

## Company/undertaking identification

Thermo Fisher Scientific Baltics UAB

V.Graiciuno 8

LT-02241 Vilnius

Life Technologies
5250 Mainway Drive
Burlington, ONT
CANADA L7L 6A4
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[or Dangerous Goods] Incident. Spill, Leak, Fire, 1-703-527-3887

**Exposure, or Accident. Call CHEMTREC**Outside the USA + Canada: 1-703-741-5970

**Country Specific Emergency Number (if available):** 

For research use only. Not for use in diagnostic procedures

## **SECTION 2: Hazards identification**

**GHS Classification** 

**Signal Word** 

None

**Hazard pictograms** 

None

**Health hazards** 

Not Hazardous

Physical hazards

Not Hazardous

#### **Environmental hazards**

Not Hazardous

## **Hazard Statements**

Not Applicable

# **Precautionary Statements**

## Prevention

Not Applicable

## Response

Not Applicable

# Storage

Not Applicable

## Disposal

Not Applicable

## Other hazards

Not Applicable

#### **HMIS**

Health	0
Flammability	0
Reactivity	0

# SECTION 3: Composition/information on ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

Revision date Product code 05-Dec-2019

9077G

#### SECTION 4: First aid measures

#### Description of first aid measures

**Skin contact** Rinse skin with water. Immediate medical attention is not required.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

**Ingestion** Not expected to present a significant ingestion hazard under anticipated conditions

of normal use. If you feel unwell, seek medical advice.

**Inhalation** Not expected to be an inhalation hazard under anticipated conditions of normal

use of this material. Consult a physician if necessary.

Notes to Physician Treat symptomatically.

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

Not Applicable

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

None.

## SECTION 5: Firefighting measures

## **Extinguishing media**

Suitable extinguishing media Unsuitable extinguishing media Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

No information available.

## Special hazards arising from the substance or mixture

Not known

## Protective equipment and precautions for firefighters

Standard procedure for chemical fires.

### SECTION 6: Accidental release measures

# Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment

Use personal protection equipment See section 8 for more information

#### **Environmental precautions**

No special environmental precautions required.

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

Soak up with inert absorbent material.

## Reference to other sections

Product code

See section 8 for more information.

9077G

Revision date 05-Dec-2019 Page 3/8

## SECTION 7: Handling and storage

## Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

## Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

## Specific end use(s)

For research use only. Not for use in diagnostic procedures.

## SECTION 8: Exposure controls/personal protection

## Control parameters

**Exposure Limits** Contains no substances with occupational exposure limit values.

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

**Exposure controls** 

Product code

**Personal Protective Equipment** 

Respiratory protection In case of insufficient ventilation wear respirators and components tested and

approved under appropriate government standards.

**Hand protection** Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

**Eye protection** Tight sealing safety goggles.

**Skin and Body Protection** Wear suitable protective clothing.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls** 

9077G

No special environmental precautions required.

Revision date 05-Dec-2019 Page 4

## SECTION 9: Physical and chemical properties

°F No data

## Information on basic physical and chemical properties

Appearance liquid

Odor No data available

Odor Threshold No data Molecular Weight No data

**pH** No data available

Melting point / melting range°CNo data°FNo dataBoiling point / boiling range°CNo data°FNo dataFlash point°CNo data°FNo dataAutoignition Temperature°CNo data°FNo data

Decomposition temperature °C No data Evaporation rate No data

Flammability (solid, gas) No data available

Upper explosion limit
Lower explosion limit
Vapor Pressure
Vapor density
Relative density
No data
No data
No data
No data
No data
No data

Solubility No data available Partition coefficient: No data available

n-octanol/water

Viscosity No data Explosive properties No data Oxidizing properties No data

Other information No data available.

## SECTION 10: Stability and reactivity

Reactivity None known.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

**Conditions to avoid** No information available.

**Incompatible materials**No dangerous reaction known under conditions of normal use.

**Hazardous decomposition** 

products

No data available.

## SECTION 11: Toxicological information

## Information on toxicological effects

There is no evidence available indicating acute toxicity.

#### **Principal Routes of Exposure**

**Acute toxicity** Data are conclusive but insufficient for classification.

**Skin corrosion/irritation** Data are conclusive but insufficient for classification

Serious eye damage/irritation Data are conclusive but insufficient for classification

Respiratory or skin

sensitization

Data are conclusive but insufficient for classification

Specific target organ toxicity Data are conclusive but insufficient for classification

(STOT) – single exposure

**Specific target organ toxicity** Data are conclusive but insufficient for classification

(STOT) - repeated exposure

Carcinogenicity Data are conclusive but insufficient for classification

Germ cell mutagenicity Data are conclusive but insufficient for classification

Reproductive toxicity Data are conclusive but insufficient for classification

Aspiration hazard Data are conclusive but insufficient for classification

#### SECTION 12: Ecological information

## **Ecotoxicity**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Mobility in soil No information available.

Persistence and degradability No information available.

Bioaccumulative potential No information available.

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other adverse effects No information available.

## SECTION 13: Disposal considerations

#### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations

## SECTION 14: Transport information

#### IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

UN number
UN proper shipping name
Transport hazard class(es)
Packing group

Not Applicable
Not Applicable
Not Applicable

**Environmental hazards** 

Not Applicable

Special precautions for user

Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not Applicable.

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## SECTION 15: Regulatory information

## **US Federal Regulations**

#### **SARA 313**

This product is not regulated by SARA.

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs

### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## **WHMIS Hazard Class**

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

## National Regulations - Brazil

Not regulated

#### SECTION 16: Other information

**Reason for revision** SDS sections updated.

Revision number

Revision date 05-Dec-2019

For research use only. Not for use in diagnostic procedures.

#### References

- ECHA: http://echa.europa.eu/
- TOXNET: http://toxnet.nlm.nih.gov/
- eChemPortal: http://www.echemportal.org/
- LOLI database: https://www.chemadvisor.com/loli-database

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

**End of Safety Data Sheet** 

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Revision date 05-Dec-2019 Page 8/8
Product code 9077G Product name 5M Ammonium Acetate



# **Safety Data Sheet**

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

#### Identification of the substance or mixture

Product code 2226G Product name DNase I

## Company/undertaking identification

Thermo Fisher Scientific Baltics UAB

V.Graiciuno 8

LT-02241 Vilnius

Life Technologies
5250 Mainway Drive
Burlington, ONT
CANADA L7L 6A4
Tel.: +370 5 2602131

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24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and

[or Dangerous Goods] Incident. Spill, Leak, Fire, 1-703-527-3887

**Exposure, or Accident. Call CHEMTREC**Outside the USA + Canada: 1-703-741-5970

**Country Specific Emergency Number (if available):** 

For research use only. Not for use in diagnostic procedures

## **SECTION 2: Hazards identification**

**GHS Classification** 

**Signal Word** 

None

**Hazard pictograms** 

None

**Health hazards** 

Not Hazardous

Physical hazards

Not Hazardous

## **Environmental hazards**

Not Hazardous

## **Hazard Statements**

Not Applicable

# **Precautionary Statements**

## Prevention

Not Applicable

## Response

Not Applicable

# Storage

Not Applicable

## Disposal

Not Applicable

## Other hazards

Not Applicable

## **HMIS**

Health	0
Flammability	0
Reactivity	0

# SECTION 3: Composition/information on ingredients

Component	CAS No.	Common name	EINECS-No	Weight-%
Glycerol 56-81-5 ( 40 - 70 )	56-81-5	-	200-289-5	40 - 70

We recommend handling all chemicals with caution.

Revision date Product code 05-Dec-2019

2226G

#### SECTION 4: First aid measures

#### Description of first aid measures

**Skin contact** Rinse skin with water. Immediate medical attention is not required.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

**Ingestion** Not expected to present a significant ingestion hazard under anticipated conditions

of normal use. If you feel unwell, seek medical advice.

**Inhalation** Not expected to be an inhalation hazard under anticipated conditions of normal

use of this material. Consult a physician if necessary.

Notes to Physician Treat symptomatically.

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

Not Applicable

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

None.

## SECTION 5: Firefighting measures

# **Extinguishing media**

Suitable extinguishing media Unsuitable extinguishing media Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

No information available.

## Special hazards arising from the substance or mixture

Not known

## Protective equipment and precautions for firefighters

Standard procedure for chemical fires.

### SECTION 6: Accidental release measures

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

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment

Use personal protection equipment See section 8 for more information

#### **Environmental precautions**

No special environmental precautions required. .

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

Soak up with inert absorbent material.

## Reference to other sections

See section 8 for more information.

Revision date 05-Dec-2019 Page 3

## SECTION 7: Handling and storage

#### Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

## Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

#### Specific end use(s)

Research Use Only. Not for use in diagnostic procedures.

## SECTION 8: Exposure controls/personal protection

#### Control parameters

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Glycerol	15 mg/m <sup>3</sup>	None	None	None
	5 mg/m <sup>3</sup>			

Chemical Name	Brazil - OEL - TWAs (LTs)	Brazil - OEL - Ceilings	Brazil - OEL - Skin Designations
Glycerol	None	None	None

Engineering Measures Ensure adequate ventilation, especially in confined areas.

## **Exposure controls**

#### **Personal Protective Equipment**

**Respiratory protection** In case of insufficient ventilation wear respirators and components tested and

approved under appropriate government standards.

**Hand protection** Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

**Eye protection** Tight sealing safety goggles.

**Skin and Body Protection** Wear suitable protective clothing.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

## **Environmental exposure controls**

No special environmental precautions required. .

## SECTION 9: Physical and chemical properties

## Information on basic physical and chemical properties

Appearance liquid

Odor No data available

Odor Threshold No data Molecular Weight No data

**pH** Mixture has not been tested

Melting point / melting range°CNo data°FNo dataBoiling point / boiling range°CNo data°FNo dataFlash point°CNo data°FNo dataAutoignition Temperature°CNo data°FNo dataDecomposition temperature°CNo data°FNo data

Evaporation rate No data
Flammability (solid, gas) Not Applicable
Upper explosion limit No data
Lower explosion limit No data
Vapor Pressure No data

Lower explosion limit
Vapor Pressure
No data
Vapor density
No data
Relative density
No data
Specific gravity
No data
Solublity
Soluble in

**Solubility** Soluble in water **Partition coefficient:** No data available

n-octanol/water

Viscosity No data Explosive properties No data Oxidizing properties No data

Other information No data available.

## SECTION 10: Stability and reactivity

Reactivity None known.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

**Conditions to avoid** None under normal processing.

**Incompatible materials**No dangerous reaction known under conditions of normal use.

**Hazardous decomposition** 

2226G

products

Product code

No data available.

Revision date 05-Dec-2019 Page 5

## SECTION 11: Toxicological information

## Information on toxicological effects

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Glycerol	= 12600 mg/kg Oral	No data available	>570mg/m³(Rat)

#### **Principal Routes of Exposure**

**Acute toxicity** Data are conclusive but insufficient for classification.

**Skin corrosion/irritation** Data are conclusive but insufficient for classification

Serious eye damage/irritation Data are conclusive but insufficient for classification

Respiratory or skin

sensitization

Data are conclusive but insufficient for classification

**Specific target organ toxicity** Data are conclusive but insufficient for classification (STOT) – single exposure

**Specific target organ toxicity** Data are conclusive but insufficient for classification (STOT) – repeated exposure

Carcinogenicity Data are conclusive but insufficient for classification

**Germ cell mutagenicity** Data are conclusive but insufficient for classification

Reproductive toxicity Data are conclusive but insufficient for classification

**Aspiration hazard** Data are conclusive but insufficient for classification

## SECTION 12: Ecological information

#### **Ecotoxicity**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic	Toxicity to fish	Microtox Data	log Pow
		invertebrates			
Glycerol	No data available	Daphnia magna	No data available	No data available	logPow-1.76
		EC50>500 mg/L (24			
		h)			

**Mobility in soil** No information available.

Persistence and degradability Inherently biodegradable.

**Bioaccumulative potential** Material does not bioaccumulate.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other adverse effects No information available.

Revision date 05-Dec-2019 Page 6/9

Revision date05-Dec-2019Page 6/9Product code2226GProduct name DNase I

## SECTION 13: Disposal considerations

#### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations

## **SECTION 14: Transport information**

#### IATA / ADR / DOT-US / IMDG

Not classified as dangerous in the meaning of transport regulations

UN number
UN proper shipping name
Transport hazard class(es)
Packing group

Not Applicable
Not Applicable
Not Applicable

#### **Environmental hazards**

Not Applicable

## Special precautions for user

Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not Applicable.

## SECTION 15: Regulatory information

Component	US TSCA
Glycerol	Listed
56-81-5 ( 40 - 70 )	

## **US Federal Regulations**

#### **SARA 313**

This product is not regulated by SARA.

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs

## **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### **WHMIS Hazard Class**

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

# National Regulations - Brazil

<u>Chemical Name</u>	CAS No.	Brazil - National Agency for Sanitary Surveillance (ANVISA)	Brazil - National List of Carcinogen Agents to Humans (LINACH)
Glycerol	56-81-5	Not Listed	Not Listed

## SECTION 16: Other information

**Reason for revision** SDS sections updated.

Revision number

Revision date 05-Dec-2019

For research use only. Not for use in diagnostic procedures.

#### References

- ECHA: http://echa.europa.eu/
- TOXNET: http://toxnet.nlm.nih.gov/
- eChemPortal: http://www.echemportal.org/
- LOLI database: https://www.chemadvisor.com/loli-database

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held

Revision date 05-Dec-2019 Page 8/9
Product code 2226G Product name DNase I

liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

**End of Safety Data Sheet** 



# Safety Data Sheet

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

#### Identification of the substance or mixture

Product code 8173G

Product name DNase Inactivation Reagent

## Company/undertaking identification

Thermo Fisher Scientific Baltics UAB

V.Graiciuno 8

LT-02241 Vilnius

Life Technologies
5250 Mainway Drive
Burlington, ONT
CANADA L7L 6A4
Tel.: +370 5 2602131

Life Technologies
5250 Mainway Drive
Burlington, ONT
CANADA L7L 6A4
800/263-6236

Fax.: +370 5 2602142

24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and

[or Dangerous Goods] Incident. Spill, Leak, Fire, 1-703-527-3887

**Exposure, or Accident. Call CHEMTREC**Outside the USA + Canada: 1-703-741-5970

**Country Specific Emergency Number (if available):** 

For research use only. Not for use in diagnostic procedures

## **SECTION 2: Hazards identification**

**GHS Classification** 

**Signal Word** 

None

**Hazard pictograms** 

None

**Health hazards** 

Not Hazardous

Physical hazards

Not Hazardous

**Revision date** 05-Dec-2019 **Product code** 8173G

#### **Environmental hazards**

Not Hazardous

## **Hazard Statements**

Not Applicable

# **Precautionary Statements**

## Prevention

Not Applicable

## Response

Not Applicable

# Storage

Not Applicable

## Disposal

Not Applicable

## Other hazards

Not Applicable

#### **HMIS**

Health	0
Flammability	0
Reactivity	0

# SECTION 3: Composition/information on ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

**Revision date** Product code

05-Dec-2019

8173G

#### SECTION 4: First aid measures

#### Description of first aid measures

**Skin contact** Rinse skin with water. Immediate medical attention is not required.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

**Ingestion** Not expected to present a significant ingestion hazard under anticipated conditions

of normal use. If you feel unwell, seek medical advice.

**Inhalation** Not expected to be an inhalation hazard under anticipated conditions of normal

use of this material. Consult a physician if necessary.

Notes to Physician Treat symptomatically.

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

Not Applicable

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

None.

## SECTION 5: Firefighting measures

## **Extinguishing media**

Suitable extinguishing media Unsuitable extinguishing media Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

No information available.

## Special hazards arising from the substance or mixture

Not known

## Protective equipment and precautions for firefighters

Standard procedure for chemical fires.

### SECTION 6: Accidental release measures

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

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment

Use personal protection equipment See section 8 for more information

See section 8 for more information

#### **Environmental precautions**

No special environmental precautions required.

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

Soak up with inert absorbent material.

## Reference to other sections

See section 8 for more information.

Revision date 05-Dec-2019 Page 3

## SECTION 7: Handling and storage

## Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

## Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

## Specific end use(s)

For research use only. Not for use in diagnostic procedures.

## SECTION 8: Exposure controls/personal protection

## Control parameters

**Exposure Limits** Contains no substances with occupational exposure limit values.

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

**Exposure controls** 

**Personal Protective Equipment** 

In case of insufficient ventilation wear respirators and components tested and Respiratory protection

approved under appropriate government standards.

Hand protection Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

Tight sealing safety goggles. Eye protection

**Skin and Body Protection** Wear suitable protective clothing.

Handle in accordance with good industrial hygiene and safety practice **Hygiene Measures** 

**Environmental exposure controls** 

No special environmental precautions required.

Revision date Product code 8173G

05-Dec-2019

## SECTION 9: Physical and chemical properties

°F No data

## Information on basic physical and chemical properties

Appearance liquid

Odor No data available

Odor Threshold No data Molecular Weight No data

**pH** No data available

Melting point / melting range°CNo data°FNo dataBoiling point / boiling range°CNo data°FNo dataFlash point°CNo data°FNo dataAutoignition Temperature°CNo data°FNo data

**Decomposition temperature** °C No data **Evaporation rate** No data

Flammability (solid, gas) No data available

Upper explosion limit
Lower explosion limit
Vapor Pressure
Vapor density
Relative density
No data
No data
No data
No data
No data
No data

**Solubility**Partition coefficient:
No data available
No data available

n-octanol/water

Viscosity No data Explosive properties No data Oxidizing properties No data

Other information No data available.

## SECTION 10: Stability and reactivity

Reactivity None known.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

**Conditions to avoid** No information available.

**Incompatible materials**No dangerous reaction known under conditions of normal use.

Hazardous decomposition

products

No data available.

Revision date 05-Dec-2019 Product code 8173G

## SECTION 11: Toxicological information

## Information on toxicological effects

There is no evidence available indicating acute toxicity.

#### **Principal Routes of Exposure**

**Acute toxicity** Data are conclusive but insufficient for classification.

**Skin corrosion/irritation** Data are conclusive but insufficient for classification

Serious eye damage/irritation Data are conclusive but insufficient for classification

Respiratory or skin

sensitization

Data are conclusive but insufficient for classification

Specific target organ toxicity Data are conclusive but insufficient for classification

(STOT) - single exposure

Specific target organ toxicity Data are conclusive but insufficient for classification

(STOT) - repeated exposure

Carcinogenicity Data are conclusive but insufficient for classification

Germ cell mutagenicity Data are conclusive but insufficient for classification

Reproductive toxicity Data are conclusive but insufficient for classification

Aspiration hazard Data are conclusive but insufficient for classification

#### SECTION 12: Ecological information

#### **Ecotoxicity**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Mobility in soil No information available.

Persistence and degradability No information available.

**Bioaccumulative potential** No information available.

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other adverse effects No information available.

**Revision date** 05-Dec-2019 **Product code** 8173G

## SECTION 13: Disposal considerations

#### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations

# **SECTION 14: Transport information**

#### IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

UN number
UN proper shipping name
Transport hazard class(es)
Packing group

Not Applicable
Not Applicable
Not Applicable

**Environmental hazards** 

Not Applicable

Special precautions for user

Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not Applicable.

Revision date 05-Dec-2019

## SECTION 15: Regulatory information

## **US Federal Regulations**

#### **SARA 313**

This product is not regulated by SARA.

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs

## **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## **WHMIS Hazard Class**

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

## National Regulations - Brazil

Not regulated

#### SECTION 16: Other information

**Reason for revision** SDS sections updated.

Revision number

Revision date 05-Dec-2019

For research use only. Not for use in diagnostic procedures.

#### References

- ECHA: http://echa.europa.eu/
- TOXNET: http://toxnet.nlm.nih.gov/
- eChemPortal: http://www.echemportal.org/
- LOLI database: https://www.chemadvisor.com/loli-database

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

**End of Safety Data Sheet** 

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**Revision date** 05-Dec-2019 **Product code** 8173G



# **Safety Data Sheet**

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

#### Identification of the substance or mixture

Product code 9911G4

Product name Elution Solution

## Company/undertaking identification

Thermo Fisher Scientific Baltics UAB

V.Graiciuno 8

LT-02241 Vilnius

Life Technologies
5250 Mainway Drive
Burlington, ONT
CANADA L7L 6A4
Tel.: +370 5 2602131

Life Technologies
5250 Mainway Drive
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CANADA L7L 6A4
800/263-6236

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24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and

[or Dangerous Goods] Incident. Spill, Leak, Fire, 1-703-527-3887

**Exposure, or Accident. Call CHEMTREC**Outside the USA + Canada: 1-703-741-5970

**Country Specific Emergency Number (if available):** 

For research use only. Not for use in diagnostic procedures

## **SECTION 2: Hazards identification**

**GHS Classification** 

**Signal Word** 

None

**Hazard pictograms** 

None

Health hazards

Not Hazardous

Physical hazards

Not Hazardous

#### **Environmental hazards**

Not Hazardous

## **Hazard Statements**

Not Applicable

# **Precautionary Statements**

## Prevention

Not Applicable

## Response

Not Applicable

# Storage

Not Applicable

## Disposal

Not Applicable

## Other hazards

Not Applicable

## **HMIS**

Health	0
Flammability	0
Reactivity	0

# SECTION 3: Composition/information on ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

Revision date Product code 04-Dec-2019 9911G4 Page 2/8
Product name Elution Solution

#### SECTION 4: First aid measures

#### Description of first aid measures

**Skin contact** Rinse skin with water. Immediate medical attention is not required.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

**Ingestion** Not expected to present a significant ingestion hazard under anticipated conditions

of normal use. If you feel unwell, seek medical advice.

**Inhalation** Not expected to be an inhalation hazard under anticipated conditions of normal

use of this material. Consult a physician if necessary.

Notes to Physician Treat symptomatically.

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

Not Applicable

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

None.

## SECTION 5: Firefighting measures

# **Extinguishing media**

Suitable extinguishing media Unsuitable extinguishing media Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

No information available.

## Special hazards arising from the substance or mixture

Not known

## Protective equipment and precautions for firefighters

Standard procedure for chemical fires.

### SECTION 6: Accidental release measures

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

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment

Use personal protection equipment

See section 8 for more information

#### **Environmental precautions**

No special environmental precautions required.

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

Soak up with inert absorbent material.

## Reference to other sections

Product code

See section 8 for more information.

9911G4

Revision date 04-Dec-2019 Page 3/8

### SECTION 7: Handling and storage

### Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

### Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

### Specific end use(s)

For research use only. Not for use in diagnostic procedures.

### SECTION 8: Exposure controls/personal protection

### Control parameters

**Exposure Limits** Contains no substances with occupational exposure limit values.

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

**Exposure controls** 

**Personal Protective Equipment** 

In case of insufficient ventilation wear respirators and components tested and Respiratory protection

approved under appropriate government standards.

Hand protection Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

Tight sealing safety goggles. Eye protection

**Skin and Body Protection** Wear suitable protective clothing.

Handle in accordance with good industrial hygiene and safety practice **Hygiene Measures** 

**Environmental exposure controls** 

No special environmental precautions required.

04-Dec-2019

Revision date

### SECTION 9: Physical and chemical properties

°F No data

°F No data

### Information on basic physical and chemical properties

Appearance liquid

Odor No data available

Odor Threshold No data Molecular Weight No data

**pH** No data available

Melting point / melting range

Boiling point / boiling range
Flash point

C No data

C No data

C No data

Flash point °C No data °F No data
Autoignition Temperature °C No data °F No data
Decomposition temperature °C No data °F No data
Evaporation rate No data

Flammability (solid, gas) No data available

Upper explosion limit
Lower explosion limit
Vapor Pressure
Vapor density
Relative density
No data

**Solubility**Partition coefficient:
No data available
No data available

n-octanol/water

Viscosity No data Explosive properties No data Oxidizing properties No data

Other information No data available.

### SECTION 10: Stability and reactivity

Reactivity None known.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

**Conditions to avoid** No information available.

**Incompatible materials**No dangerous reaction known under conditions of normal use.

Hazardous decomposition

products

No data available.

\_\_\_\_\_

### SECTION 11: Toxicological information

### Information on toxicological effects

There is no evidence available indicating acute toxicity.

#### **Principal Routes of Exposure**

**Acute toxicity** Data are conclusive but insufficient for classification.

**Skin corrosion/irritation** Data are conclusive but insufficient for classification

Serious eye damage/irritation Data are conclusive but insufficient for classification

Respiratory or skin

sensitization

Data are conclusive but insufficient for classification

Specific target organ toxicity Data are conclusive but insufficient for classification

(STOT) - single exposure

Specific target organ toxicity Data are conclusive but insufficient for classification

(STOT) - repeated exposure

Carcinogenicity Data are conclusive but insufficient for classification

Germ cell mutagenicity Data are conclusive but insufficient for classification

Reproductive toxicity Data are conclusive but insufficient for classification

Aspiration hazard Data are conclusive but insufficient for classification

#### SECTION 12: Ecological information

#### **Ecotoxicity**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Mobility in soil No information available.

Persistence and degradability No information available.

**Bioaccumulative potential** No information available.

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other adverse effects No information available.

Revision date 04-Dec-2019 Page 6

### SECTION 13: Disposal considerations

#### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations

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

#### IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

UN number
UN proper shipping name
Transport hazard class(es)
Packing group

Not Applicable
Not Applicable
Not Applicable

**Environmental hazards** 

Not Applicable

Special precautions for user

Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not Applicable.

\_\_\_\_\_

### SECTION 15: Regulatory information

### **US Federal Regulations**

#### **SARA 313**

This product is not regulated by SARA.

### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs

### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### **WHMIS Hazard Class**

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

### National Regulations - Brazil

Not regulated

#### SECTION 16: Other information

**Reason for revision** SDS sections updated.

Revision number

Revision date 04-Dec-2019

For research use only. Not for use in diagnostic procedures.

#### References

- ECHA: http://echa.europa.eu/
- TOXNET: http://toxnet.nlm.nih.gov/
- eChemPortal: http://www.echemportal.org/
- LOLI database: https://www.chemadvisor.com/loli-database

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

**End of Safety Data Sheet** 

Revision date 04-Dec-2019 Page 8 / 8
Product code 9911G4 Product name Elution Solution



# Safety Data Sheet

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

### Identification of the substance or mixture

Product code 8550G4

Product name Formaldehyde Load Dye

### Company/undertaking identification

Thermo Fisher Scientific Baltics UAB
V.Graiciuno 8
LT-02241 Vilnius
Lithuania
CANADA L7L 6A4
Tel.: +370 5 2602131
Life Technologies
5250 Mainway Drive
Burlington, ONT
CANADA L7L 6A4
800/263-6236

Fax.: +370 5 2602142

24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and

[or Dangerous Goods] Incident. Spill, Leak, Fire, 1-703-527-3887

**Exposure, or Accident. Call CHEMTREC**Outside the USA + Canada: 1-703-741-5970

**Country Specific Emergency Number (if available):** 

For research use only. Not for use in diagnostic procedures

### SECTION 2: Hazards identification

### **GHS Classification**

Signal Word DANGER

### **Hazard pictograms**



Revision date Product code 15-Sep-2020 8550G4

#### **Health hazards**

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Specific target organ toxicity (STOT) – single exposure	Category 2 Category 3
Carcinogenicity	Category 1B
Reproductive Toxicity	Category 1B
Germ cell mutagenicity	Mutagenic category 2

### **Physical hazards**

Not classified

#### **Environmental hazards**

Not classified

#### **Hazard Statements**

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H341 - Suspected of causing genetic defects

H350 - May cause cancer

H360 - May damage fertility or the unborn child

H371 - May cause damage to organs

#### **Precautionary Statements**

#### Prevention

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P201 - Obtain special instructions before use

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash hands thoroughly after handling

#### Response

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor

### Storage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

#### **Disposal**

P501 - Dispose of contents/ container to an approved waste disposal plant

#### Other hazards

Not Applicable

### **HMIS**

Health	4 * Chronic Hazard
Flammability	0
Reactivity	0

Revision date Product code 15-Sep-2020 8550G4 Page 2 / 10 Product name Formaldehyde Load Dye

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

Chemical Name	CAS No.	Common name	EINECS-No	Weight-%
Formamide	75-12-7	Not applicable	200-842-0	40 - 70
Formaldehyde	50-00-0	Not applicable	200-001-8	5 - 10
Methyl alcohol	67-56-1	Not applicable	200-659-6	3 - 7

We recommend handling all chemicals with caution.

### SECTION 4: First aid measures

#### Description of first aid measures

**Skin contact** Wash off immediately with plenty of water for at least 15 minutes. Remove and

wash contaminated clothing and gloves, including the inside, before re-use.

Immediate medical attention is required.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediate medical attention is required.

**Ingestion** Do not induce vomiting without medical advice. If swallowed, rinse mouth with

water (only if the person is conscious). Get medical attention if symptoms occur.

**Inhalation** Remove to fresh air. If symptoms persist, call a physician.

Notes to Physician Treat symptomatically.

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

H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H335 - May cause respiratory irritation H341 - Suspected of causing genetic defects H350 - May cause cancer H360 - May damage fertility or the unborn child H371 - May cause damage to organs

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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

### SECTION 5: Firefighting measures

### **Extinguishing media**

Suitable extinguishing media Unsuitable extinguishing media Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical. No information available.

### Special hazards arising from the substance or mixture

Not known

### Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

\_\_\_\_\_

### SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation
Always wear recommended Personal Protective Equipment
Use personal protection equipment
See section 8 for more information

#### **Environmental precautions**

Prevent product from entering drains.

### Methods and material for containment and cleaning up

Ventilate the area. Soak up with inert absorbent material.

#### Reference to other sections

See section 8 for more information.

### SECTION 7: Handling and storage

#### Precautions for safe handling

Avoid breathing vapors or mists. Avoid contact with eyes, skin and clothing. Wash hands before breaks and immediately after handling the product. Use personal protective equipment as required.

### Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

### Specific end use(s)

For research use only. Not for use in diagnostic procedures.

### SECTION 8: Exposure controls/personal protection

#### Control parameters

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Formamide	37 mg/m <sup>3</sup>	None	1 ppm	None
Formaldehyde	0.75 ppm	None	0.1 ppm	0.3 ppm
Methyl alcohol	200 ppm	None	200 ppm	250 ppm
	260 mg/m <sup>3</sup>			

Chemical Name	Brazil - OEL - TWAs (LTs)	Brazil - OEL - Ceilings	Brazil - OEL - Skin Designations
Formamide	1 ppm	None	None
Formaldehyde	0.1 ppm	1.6 ppm 2.3 mg/m <sup>3</sup>	None
Methyl alcohol	156 ppm 200 mg/m³	None	skin designation

Engineering Measures Ensure adequate ventilation, especially in confined areas.

**Exposure controls** 

**Personal Protective Equipment** 

Respiratory protection In case of insufficient ventilation wear respirators and components tested and

Revision date15-Sep-2020Page 4 / 10Product code8550G4Product name Formaldehyde Load Dye

approved under appropriate government standards.

**Hand protection** Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

**Eye protection** Tight sealing safety goggles.

**Skin and Body Protection** Wear suitable protective clothing.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

# **Environmental exposure controls**Prevent product from entering drains.

### SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Physical state liquid Color blue

Odor characteristic
Molecular Weight No data

Molecular Versities range Control of the data

Melting point / melting range°C No data°F No dataBoiling point / boiling range°C No data°F No data

Flammability (solid, gas) No data available

Lower explosion limit No data
Upper explosion limit No data

Flash point °C No data °F No data
Autoignition Temperature °C No data °F No data

Decomposition temperature °C No data °F No data °F No data

**Evaporation rate** No data **Viscosity** No data

**Solubility** No data available **Partition coefficient:** No data available

n-octanol/water

Vapor PressureNo dataSpecific gravityNo dataRelative densityNo dataVapor densityNo dataExplosive propertiesNo dataOxidizing propertiesNo dataParticle characteristicsNo data

#### Other information

### Information with regard to physical hazard classes

No information available

### Other safety characteristics

No information available

SECTION 10: Stability and reactivity

Reactivity None known.

Chemical stability Stable under normal conditions.

Possibility of hazardous

reactions

Exothermic reaction with: Oxidizing agents, bases.

Conditions to avoid Heat.

Incompatible materials Oxidizing agent. Bases. Furfuryl alcohol. Oxides of phosphorus. Hydrogen

peroxide. Pyridine. Iodine. Sulphur trioxide.

**Hazardous decomposition** 

products

Ammonia. Nitrogen oxides (NOx). Hydrogen cyanide (hydrocyanic acid).

### SECTION 11: Toxicological information

### Information on toxicological effects

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Formamide	3200 mg/kg	13500 mg/kg	3900 ppm/6H
Formaldehyde	= 100 mg/kg (Rat)	= 270 mg/kg(Rabbit)	=0.578mg/L(Rat)
Methyl alcohol	= 6200 mg/kg (Rat)	= 15840 mg/kg(Rabbit)	=22500ppm(Rat)

#### **Principal Routes of Exposure**

**Acute toxicity** Data are conclusive but insufficient for classification.

Skin corrosion/irritation Skin irritation

Serious eye damage/irritation Irritating to eyes

Respiratory or skin

sensitization

May cause an allergic skin reaction

**Specific target organ toxicity** May cause respiratory irritation Causes damage to organs **(STOT) – single exposure** 

**Specific target organ toxicity** Data are conclusive but insufficient for classification **(STOT) – repeated exposure** 

Carcinogenicity Contains a known or suspected carcinogen

**Germ cell mutagenicity** Suspected of causing genetic defects

Reproductive toxicity Product is or contains a chemical which is a known or suspected reproductive

hazard

Aspiration hazard Data are conclusive but insufficient for classification

\_\_\_\_\_\_

### SECTION 12: Ecological information

#### **Toxicity**

.

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Microtox Data	log Pow
Formamide	Desmodesmus subspicatus EC50>500 mg/L (72 h) Desmodesmus subspicatus EC50>500 mg/L (96 h)	Daphnia magna EC50>500 mg/L (48 h)	No data available	No data available	logPow-0.82
Formaldehyde	No data available	Daphnia magna EC5011.3 - 18 mg/L (48 h) Daphnia magna LC50=2 mg/L (48 h)	No data available	No data available	logPow0.35
Methyl alcohol	No data available	No data available	No data available	Photobacterium phosphoreum EC50=39000 mg/L (25 min) Photobacterium phosphoreum EC50=40000 mg/L (15 min) Photobacterium phosphoreum EC50=43000 mg/L (5 min)	logPow-0.77

Mobility in soil No information available.

Persistence and degradability Readily biodegradable.

Bioaccumulative potential No information available.

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other adverse effects No information available.

### SECTION 13: Disposal considerations

### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

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

### IATA / ADR / DOT-US / IMDG

Not classified as dangerous in the meaning of transport regulations

UN number or ID number Not Applicable

Revision date 15-Sep-2020 Product code 8550G4 Page 7 / 10 Product name Formaldehyde Load Dye UN proper shipping name Transport hazard class(es) Packing group Not Applicable Not Applicable Not Applicable

**Environmental hazards** 

Not Applicable

Special precautions for user

Not Applicable

Maritime transport in bulk according to IMO instruments

Not Applicable.

SECTION 15:	Regulatory	information
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Component	US TSCA
Formamide	Listed
75-12-7 ( 40 - 70 )	
Formaldehyde	Listed
50-00-0 ( 5 - 10 )	
Methyl alcohol	Listed
67-56-1 (3 - 7)	

### **US Federal Regulations**

#### **SARA 313**

This product contains the following toxic chemical(s) subject to the notification requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. This law requires certain manufacturers to report on annual emissions of specified chemicals and chemical categories. Please note that if you repackage, or otherwise redistribute, this product to industrial customers, a notice similar to this one should be sent to those customers.

<b>Chemical Name</b>	CAS No.	Weight-%	SARA 313 - Threshold
			<u>Values</u>
Formaldehyde	50-00-0	5 - 10	0.1
Methyl alcohol	67-56-1	3 - 7	1.0

### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs

Component	CAS No.	Weight-%	HAPS data
Formaldehyde	50-00-0	5 - 10	Present
50-00-0 ( 5 - 10 )			
Methyl alcohol	67-56-1	3 - 7	Listed
67-56-1 ( 3 - 7 )			

### **US State Regulations**

Chemical Name	Massachusetts - RTK (Right-to-Know)	New Jersey - RTK (Right-to-Know)	Pennsylvania - RTK (Right-to-Know)
Formamide	Listed	Listed	Listed
Formaldehyde	Listed	Listed	Listed

Revision date Product code 15-Sep-2020 8550G4

Page 8 / 10 Product name Formaldehyde Load Dye

Methyl alcohol	Listed	Listed	Listed

### **California Proposition 65**

This product contains the following Proposition 65 chemicals:.

Chemical Name	CAS No.	Weight-%	Category
Formaldehyde	50-00-0	5 - 10	Carcinogen
Methyl alcohol	67-56-1	3 - 7	Developmental

### **WHMIS Hazard Class**

D2A - Very toxic materials



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

### National Regulations - Brazil

Chemical Name	CAS No.	Brazil - National Agency for Sanitary Surveillance (ANVISA)	Brazil - National List of Carcinogen Agents to Humans (LINACH)
Formamide	75-12-7	Not Listed	Not Listed
Formaldehyde	50-00-0	Not Listed	Group 1
Methyl alcohol	67-56-1	Not Listed	Not Listed

### SECTION 16: Other information

**Reason for revision** SDS sections updated.

Revision number 2

Revision date 15-Sep-2020

For research use only. Not for use in diagnostic procedures.

### **References**

• ECHA: http://echa.europa.eu/

TOXNET: http://toxnet.nlm.nih.gov/

eChemPortal: http://www.echemportal.org/

• LOLI database: https://www.chemadvisor.com/loli-database

#### Abbreviations and acronyms

TWA - Time-Weighted Average

**OELs** - Occupational Exposure Limits

STEL - Short Term Exposure Limit

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**KECL** - Korean Existing and Evaluated Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

Revision date 15-Sep-2020 Product code 8550G4 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**CEPA** - Canadian Environmental Protection Act

**EPA** - Environmental Protection Agency

OSHA - Occupational Safety and Health Administration of the US Department of Labor

IATA - International Air Transport Association

**DOT** - Department of Transportation

IMDG - International Maritime Dangerous Goods

**ACGIH** - American Conference of Governmental Industrial Hygienists

NIOSH - National Institute for Occupational Safety and Health

AIHA - American Industrial Hygiene Association

HMIS - Department of Defense Hazardous Materials Information System

NTP - National Toxicology Program

IARC - International Agency for Research on Cancer

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

**End of Safety Data Sheet** 

Revision date Product code 15-Sep-2020 8550G4



# Safety Data Sheet

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

### Identification of the substance or mixture

Product code 9520G1

Product name Linear Acrylamide

### Company/undertaking identification

Thermo Fisher Scientific Baltics UAB

V.Graiciuno 8

Life Technologies

5250 Mainway Drive

LT-02241 Vilnius

Burlington, ONT

CANADA L7L 6A4

Tel.: +370 5 2602131 800/263-6236

Fax.: +370 5 2602142

24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and

[or Dangerous Goods] Incident. Spill, Leak, Fire, 1-703-527-3887

**Exposure, or Accident. Call CHEMTREC**Outside the USA + Canada: 1-703-741-5970

**Country Specific Emergency Number (if available):** 

For research use only. Not for use in diagnostic procedures

### SECTION 2: Hazards identification

### **GHS Classification**

Signal Word DANGER

### **Hazard pictograms**



Revision date Product code 05-Dec-2019 9520G1

#### **Health hazards**

Skin sensitization	Category 1
Carcinogenicity	Category 1B
Reproductive Toxicity	Category 2
Germ cell mutagenicity	Mutagenic category 1

#### **Physical hazards**

Not Hazardous

#### **Environmental hazards**

Not Hazardous

### **Hazard Statements**

H317 - May cause an allergic skin reaction

H350 - May cause cancer

H340 - May cause genetic defects

H361f - Suspected of damaging fertility

### **Precautionary Statements**

#### Prevention

P201 - Obtain special instructions before use

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

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

P272 - Contaminated work clothing should not be allowed out of the workplace

#### Response

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P362 + P364 - Take off contaminated clothing and wash it before reuse

### Storage

Not Applicable

#### Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

#### Other hazards

Not Applicable

### **HMIS**

Health	4 *
Flammability	0
Reactivity	0

### SECTION 3: Composition/information on ingredients

Component	CAS No.	Common name	EINECS-No	Weight-%
Acrylamide	79-06-1	-	201-173-7	0.5 - <1
79-06-1 ( 0.5 - <1 )				

We recommend handling all chemicals with caution.

### SECTION 4: First aid measures

#### Description of first aid measures

**Skin contact** Wash off immediately with plenty of water for at least 15 minutes. Remove and

wash contaminated clothing and gloves, including the inside, before re-use.

Immediate medical attention is required.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Immediate medical attention is required.

**Ingestion** Never give anything by mouth to an unconscious person. Do not induce vomiting

without medical advice. If swallowed, rinse mouth with water (only if the person is conscious). Risk of serious damage to the lungs (by aspiration). Get medical

attention if symptoms occur.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. If symptoms persist,

call a physician.

Notes to Physician Treat symptomatically.

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

H317 - May cause an allergic skin reaction H350 - May cause cancer H340 - May cause genetic defects H361f - Suspected of damaging fertility

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

None.

### SECTION 5: Firefighting measures

#### **Extinguishing media**

**Suitable extinguishing media** Foam. Dry powder. Dry chemical. Carbon dioxide (CO<sub>2</sub>).

Water spray.

Unsuitable extinguishing media No information available.

### Special hazards arising from the substance or mixture

None known

#### Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

#### SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Avoid exposure to vapor
Avoid breathing vapors or mists
Ensure adequate ventilation
Avoid contact with skin, eyes or clothing
Use personal protection equipment
See section 8 for more information

#### **Environmental precautions**

Should not be released into the environment. Prevent product from entering drains.

### Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

#### Reference to other sections

See section 8 for more information.

### SECTION 7: Handling and storage

#### Precautions for safe handling

Always wear recommended Personal Protective Equipment. Wash hands before breaks and immediately after handling the product. Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or mists. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. See section 8 for more information.

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

Keep in properly labeled containers. Keep in a dry, cool and well-ventilated place. Store in accordance with local regulations. Keep away from combustible material.

### Specific end use(s)

For research use only.

### SECTION 8: Exposure controls/personal protection

#### Control parameters

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Acrylamide	0.3 mg/m <sup>3</sup>	None	0.03 mg/m <sup>3</sup>	None

Chemical Name	Brazil - OEL - TWAs (LTs)	Brazil - OEL - Ceilings	Brazil - OEL - Skin Designations
Acrylamide	None	None	None

**Engineering Measures** 

Ensure adequate ventilation, especially in confined areas.

### **Exposure controls**

### **Personal Protective Equipment**

Respiratory protection In case of insufficient ventilation wear respirators and components tested and

**Revision date** 05-Dec-2019 **Product code** 9520G1

Page 4/9 Product name Linear Acrylamide approved under appropriate government standards.

Hand protection Glove material:. Nitrile rubber. with thickness (mm). :5. Break through time.

(hours).:>1.

Recommended glove type has not been tested for use with product. Information is

based on professional Knowledge.

Tight sealing safety goggles. Eve protection

Wear laboratory coat for body protection. **Skin and Body Protection** 

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice

### **Environmental exposure controls**

Should not be released into the environment. Prevent product from entering drains.

### SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

**Appearance** 

Mixture has not been tested Odor **Odor Threshold** Mixture has not been tested

**Molecular Weight** No data

Mixture has not been tested

Melting point / melting range °C No data °F No data °C No data °F No data Boiling point / boiling range Flash point °C No data °F No data °C No data °F No data

**Autoignition Temperature Decomposition temperature** °C No data °F No data

**Evaporation rate** No data

Flammability (solid, gas) Not Applicable

Upper explosion limit No data No data Lower explosion limit **Vapor Pressure** No data Vapor density No data Relative density No data Specific gravity No data

Soluble in water Solubility

Partition coefficient: No data

9520G1

n-octanol/water

**Viscosity** Mixture has not been tested **Explosive properties** Mixture has not been tested **Oxidizing properties** Mixture has not been tested

Other information

No data.

Revision date

Product code

05-Dec-2019

SECTION 10: Stability and reactivity

Reactivity None known.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

**Conditions to avoid**No information available.

**Incompatible materials**No dangerous reaction known under conditions of normal use.

Hazardous decomposition

products

No data available.

### SECTION 11: Toxicological information

#### Information on toxicological effects

Chemical Name Oral LD50		Dermal LD50	Inhalation LC50
Acrylamide	= 177 mg/kg Oral LD50	No data available	No data available

### **Principal Routes of Exposure**

**Acute toxicity** Data are conclusive but insufficient for classification.

**Skin corrosion/irritation** Data are conclusive but insufficient for classification

Serious eye damage/irritation Data are conclusive but insufficient for classification

Respiratory or skin

sensitization

May cause sensitization by skin contact

Specific target organ toxicity Data are conclusive but insufficient for classification

(STOT) - single exposure

Specific target organ toxicity Data are conclusive but insufficient for classification

(STOT) - repeated exposure

Carcinogenicity Contains a known or suspected carcinogen

**Germ cell mutagenicity** Product is or contains a chemical which may cause mutations in the germ cells of

humans.

**Reproductive toxicity** Product is or contains a chemical which is a known or suspected reproductive

hazard

Aspiration hazard Data are conclusive but insufficient for classification

Revision date Product code

05-Dec-2019

9520G1

### SECTION 12: Ecological information

#### **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Microtox Data	log Pow
Acrylamide	No data available	Daphnia magna EC50=98 mg/L (48 h)	No data available	No data available	logPow-1.24

Mobility in soil No information available.

Persistence and degradability Readily biodegradable.

**Bioaccumulative potential** Material does not bioaccumulate.

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other adverse effects No information available.

### SECTION 13: Disposal considerations

#### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations

### SECTION 14: Transport information

### IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

UN number
UN proper shipping name
Transport hazard class(es)
Packing group

Not Applicable
Not Applicable
Not Applicable

### **Environmental hazards**

Not Applicable

### Special precautions for user

Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not Applicable.

\_\_\_\_\_

**Revision date** 05-Dec-2019 **Product code** 9520G1

Page 7/9 Product name Linear Acrylamide

### SECTION 15: Regulatory information

Component	US TSCA
Acrylamide	Listed
79-06-1 ( 0.5 - <1 )	

### **US Federal Regulations**

#### **SARA 313**

This product is not regulated by SARA.

 Chemical Name
 CAS No.
 Weight-%
 SARA 313 - Threshold

 Acrylamide
 79-06-1
 0.5 - <1</td>
 0.1

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs

 Component
 CAS No.
 Weight-%
 HAPS data

 Acrylamide
 79-06-1
 0.5 - <1</td>
 Present

 79-06-1 ( 0.5 - <1 )</td>
 79-06-1
 0.5 - <1</td>
 Present

### **US State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

Chemical NameCAS No.Weight-%CategoryAcrylamide79-06-10.5 - <1</td>CarcinogenDevelopmental

### **WHMIS Hazard Class**

D2A - Very toxic materials



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

### National Regulations - Brazil

<u>Chemical Name</u>	CAS No.	Brazil - National Agency for Sanitary Surveillance (ANVISA)	Brazil - National List of Carcinogen Agents to Humans (LINACH)
Acrylamide	79-06-1	Not Listed	Group 2A

### SECTION 16: Other information

**Reason for revision** SDS sections updated. **Revision number** 1

Revision date 05-Dec-2019

Revision date 05-Dec-2019 Page 8/9

Product code 9520G1 Product name Linear Acrylamide

For research use only. Not for use in diagnostic procedures.

#### References

Product code

9520G1

- ECHA: http://echa.europa.eu/
- TOXNET: http://toxnet.nlm.nih.gov/
- eChemPortal: http://www.echemportal.org/
- LOLI database: https://www.chemadvisor.com/loli-database

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

**End of Safety Data Sheet** 

Revision date 05-Dec-2019



# Safety Data Sheet

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

### Identification of the substance or mixture

Product code 8540G4

Product name Lysis/Binding Buffer

### Company/undertaking identification

Thermo Fisher Scientific Baltics UAB

V.Graiciuno 8

LT-02241 Vilnius

Life Technologies
5250 Mainway Drive
Burlington, ONT
CANADA L7L 6A4
Tel.: +370 5 2602131

Life Technologies
6250 Mainway Drive
800/263-6236

Fax.: +370 5 2602142

24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and

[or Dangerous Goods] Incident. Spill, Leak, Fire, 1-703-527-3887

**Exposure, or Accident. Call CHEMTREC**Outside the USA + Canada: 1-703-741-5970

**Country Specific Emergency Number (if available):** 

For research use only. Not for use in diagnostic procedures

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

### **GHS Classification**

Signal Word DANGER

### **Hazard pictograms**



Revision date Product code 05-Dec-2019 8540G4

Page 1/9 Product name Lysis/Binding Buffer

#### **Health hazards**

Acute oral toxicity	Category 4
Skin corrosion/irritation	Category 1 C

### **Physical hazards**

Not classified

#### **Environmental hazards**

### **Hazard Statements**

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H412 - Harmful to aquatic life with long lasting effects

### **Precautionary Statements**

#### Prevention

P273 - Avoid release to the environment

P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P270 - Do not eat, drink or smoke when using this product

#### Response

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P330 - Rinse mouth

#### Storage

Not Applicable

### **Disposal**

P501 - Dispose of contents/ container to an approved waste disposal plant

### Other hazards

Not Applicable

#### **HMIS**

Health	3
Flammability	0
Reactivity	0

### SECTION 3: Composition/information on ingredients

Component	CAS No.	Common name	EINECS-No	Weight-%
2-mercaptoethanol	60-24-2	-	200-464-6	0.1-1
60-24-2 ( 0.1-1 )				
Thiocyanic acid, compound with	593-84-0	-	209-812-1	41-54
guanidine (1:1)				
593-84-0 ( 41-54 )				

We recommend handling all chemicals with caution.

### SECTION 4: First aid measures

#### Description of first aid measures

Rinse skin with water. Immediate medical attention is not required. Skin contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present **Eve contact** 

and easy to do. Continue rinsing.

Not expected to present a significant ingestion hazard under anticipated conditions Ingestion

of normal use. If you feel unwell, seek medical advice.

Inhalation Not expected to be an inhalation hazard under anticipated conditions of normal

use of this material. Consult a physician if necessary.

**Notes to Physician** Treat symptomatically.

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

H302 - Harmful if swallowed H314 - Causes severe skin burns and eye damage H412 - Harmful to aquatic life with long lasting effects

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

None.

### SECTION 5: Firefighting measures

#### **Extinguishing media**

Suitable extinguishing media Unsuitable extinguishing media

Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical. No information available.

# Special hazards arising from the substance or mixture

None known

Revision date

### Protective equipment and precautions for firefighters

Standard procedure for chemical fires.

05-Dec-2019

#### SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment

Use personal protection equipment

See section 8 for more information

#### **Environmental precautions**

No special environmental precautions required. Avoid discharge into drains and waterways whenever possible.

### Methods and material for containment and cleaning up

Soak up with inert absorbent material.

#### Reference to other sections

See section 8 for more information.

### SECTION 7: Handling and storage

#### Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

### Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

#### Specific end use(s)

For research use only. Not for use in diagnostic procedures.

### SECTION 8: Exposure controls/personal protection

#### Control parameters

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
2-mercaptoethanol	None	None	None	None
Thiocyanic acid,	None	None	None	None
compound with guanidine				
(1:1)				

Chemical Name	Brazil - OEL - TWAs (LTs)	Brazil - OEL - Ceilings	Brazil - OEL - Skin Designations
2-mercaptoethanol	None	None	None
Thiocyanic acid, compound with	None	None	None
guanidine (1:1)			

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

#### **Exposure controls**

#### **Personal Protective Equipment**

**Respiratory protection** In case of insufficient ventilation wear respirators and components tested and

approved under appropriate government standards.

**Hand protection** Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

**Revision date** 05-Dec-2019 **Product code** 8540G4

Page 4/9 Product name Lysis/Binding Buffer **Eye protection** Tight sealing safety goggles.

**Skin and Body Protection** Wear suitable protective clothing.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

### **Environmental exposure controls**

No special environmental precautions required.

### SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

**Appearance** liauid Odor No data No data **Odor Threshold** Molecular Weight No data Melting point / melting range °C No data °F No data Boiling point / boiling range °C No data °F No data Flash point °C No data °F No data **Autoignition Temperature** °C No data °F No data **Decomposition temperature** °C No data °F No data

**Evaporation rate** No data Flammability (solid, gas) No data **Upper explosion limit** No data Lower explosion limit No data **Vapor Pressure** No data Vapor density No data Relative density No data Specific gravity No data No data Solubility No data Partition coefficient:

n-octanol/water

Viscosity No data
Explosive properties No data
Oxidizing properties No data

#### Other information

No data.

### SECTION 10: Stability and reactivity

**Chemical stability** Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

**Conditions to avoid**No information available.

**Incompatible materials**No dangerous reaction known under conditions of normal use.

**Hazardous decomposition** 

products

No data available.

**Revision date** 05-Dec-2019 **Product code** 8540G4

Page 5/9 Product name Lysis/Binding Buffer

### SECTION 11: Toxicological information

### Information on toxicological effects

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-mercaptoethanol	244 mg/kg Oral LD50	No data available	250 ppm/8h
Thiocyanic acid, compound with	593 mg/kg	No data available	No data available
guanidine (1:1)			

### **Principal Routes of Exposure**

**Acute toxicity** Data are conclusive but insufficient for classification.

**Skin corrosion/irritation** Data are conclusive but insufficient for classification

Serious eye damage/irritation Data are conclusive but insufficient for classification

Respiratory or skin sensitization

Data are conclusive but insufficient for classification

**Specific target organ toxicity** Data are conclusive but insufficient for classification (STOT) – single exposure

**Specific target organ toxicity** Data are conclusive but insufficient for classification (STOT) – repeated exposure

Carcinogenicity Data are conclusive but insufficient for classification

Germ cell mutagenicity Data are conclusive but insufficient for classification

Reproductive toxicity Data are conclusive but insufficient for classification

Aspiration hazard Data are conclusive but insufficient for classification

Revision date 05-Dec-2019

### SECTION 12: Ecological information

#### **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to algae	Toxicity to daphnia	Toxicity to fish	Microtox Data	log Pow
		and other aquatic			
		invertebrates			
2-mercaptoethanol	Desmodesmus	Daphnia magna	No data available	No data available	logPow-0.056
	subspicatus EC50=12	EC50=1.52 mg/L (48			_
	mg/L (72 h)	h)			
Thiocyanic acid, compound	No data available	No data available	No data available	No data available	No data available
with guanidine (1:1)					

**Mobility in soil** No information available.

Persistence and degradability No information available.

**Bioaccumulative potential** No information available.

Results of PBT and vPvB assessment

No information available.

Other adverse effects No information available.

### SECTION 13: Disposal considerations

#### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations

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

### IATA / ADR / DOT-US / IMDG

Classified as dangerous in the meaning of transport regulations

UN number UN1760

**UN proper shipping name**Corrosive liquid, n.o.s. (Guanidine Thiocyanate)

Transport hazard class(es) 8
Packing group III

**Environmental hazards** IMDG Marine pollutant: No

Special precautions for user

Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

\_\_\_\_\_

Revision date 05-Dec-2019 Product code 8540G4 Product name Lysis/Binding Buffer

### SECTION 15: Regulatory information

Component	US TSCA
2-mercaptoethanol	Listed
60-24-2 ( 0.1-1 )	
Thiocyanic acid, compound with guanidine (1:1)	Listed
593-84-0 ( 41-54 )	

### **US Federal Regulations**

#### **SARA 313**

This product is not regulated by SARA.

### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs

### **US State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### **WHMIS Hazard Class**

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

### National Regulations - Brazil

Chemical Name	CAS No.	Brazil - National Agency for Sanitary Surveillance (ANVISA)	Brazil - National List of Carcinogen Agents to Humans (LINACH)
2-mercaptoethanol	60-24-2	Not Listed	Not Listed
Thiocyanic acid, compound with guanidine (1:1)	593-84-0	Not Listed	Not Listed

### SECTION 16: Other information

Reason for revision SDS sections updated.

Revision number 1

Revision date 05-Dec-2019

For research use only. Not for use in diagnostic procedures.

### References

ECHA: http://echa.europa.eu/

TOXNET: http://toxnet.nlm.nih.gov/

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Revision date 05-Dec-2019 Product code 8540G4

- eChemPortal: http://www.echemportal.org/
- LOLI database: https://www.chemadvisor.com/loli-database

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

**End of Safety Data Sheet** 

Revision date Product code 05-Dec-2019 8540G4



# Safety Data Sheet

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

### Identification of the substance or mixture

Product code 5741G1

**Product name** Positive Control Primers

### Company/undertaking identification

Thermo Fisher Scientific Baltics UAB

V.Graiciuno 8

LT-02241 Vilnius

Life Technologies
5250 Mainway Drive
Burlington, ONT
CANADA L7L 6A4
Tel.: +370 5 2602131

Life Technologies
6250 Mainway Drive
800/263-6236

Fax.: +370 5 2602142

24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and

[or Dangerous Goods] Incident. Spill, Leak, Fire, 1-703-527-3887

**Exposure, or Accident. Call CHEMTREC**Outside the USA + Canada: 1-703-741-5970

**Country Specific Emergency Number (if available):** 

For research use only. Not for use in diagnostic procedures

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

**GHS Classification** 

**Signal Word** 

None

**Hazard pictograms** 

None

Health hazards

Not Hazardous

Physical hazards

5741G1

Not Hazardous

Product code

Revision date 05-Dec-2019

Product name Positive Control Primers

#### **Environmental hazards**

Not Hazardous

### **Hazard Statements**

Not Applicable

### **Precautionary Statements**

### Prevention

Not Applicable

### Response

Not Applicable

### Storage

Not Applicable

### Disposal

Not Applicable

### Other hazards

Not Applicable

#### **HMIS**

Health	0
Flammability	0
Reactivity	0

### SECTION 3: Composition/information on ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

Revision date Product code 05-Dec-2019 5741G1

#### SECTION 4: First aid measures

#### Description of first aid measures

**Skin contact** Rinse skin with water. Immediate medical attention is not required.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

**Ingestion** Not expected to present a significant ingestion hazard under anticipated conditions

of normal use. If you feel unwell, seek medical advice.

**Inhalation** Not expected to be an inhalation hazard under anticipated conditions of normal

use of this material. Consult a physician if necessary.

Notes to Physician Treat symptomatically.

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

Not Applicable

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

None.

### SECTION 5: Firefighting measures

### **Extinguishing media**

Suitable extinguishing media Unsuitable extinguishing media Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

No information available.

### Special hazards arising from the substance or mixture

Not known

### Protective equipment and precautions for firefighters

Standard procedure for chemical fires.

### SECTION 6: Accidental release measures

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

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment

Use personal protection equipment

See section 8 for more information

#### **Environmental precautions**

No special environmental precautions required.

### Methods and material for containment and cleaning up

Soak up with inert absorbent material.

### Reference to other sections

See section 8 for more information.

## SECTION 7: Handling and storage

## Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

## Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

## Specific end use(s)

For research use only. Not for use in diagnostic procedures.

## SECTION 8: Exposure controls/personal protection

#### Control parameters

**Exposure Limits** Contains no substances with occupational exposure limit values.

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

**Exposure controls** 

Product code

**Personal Protective Equipment** 

Respiratory protection In case of insufficient ventilation wear respirators and components tested and

approved under appropriate government standards.

**Hand protection** Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

**Eye protection** Tight sealing safety goggles.

**Skin and Body Protection** Wear suitable protective clothing.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls** 

5741G1

No special environmental precautions required.

Revision date 05-Dec-2019 Page 4/8

## SECTION 9: Physical and chemical properties

°F No data

## Information on basic physical and chemical properties

Appearance liquid

Odor No data available

Odor Threshold No data Molecular Weight No data

**pH** No data available

Melting point / melting range°CNo data°FNo dataBoiling point / boiling range°CNo data°FNo dataFlash point°CNo data°FNo dataAutoignition Temperature°CNo data°FNo data

Decomposition temperature °C No data
Evaporation rate No data

Flammability (solid, gas) No data available

Upper explosion limit
Lower explosion limit
Vapor Pressure
Vapor density
Relative density
No data
No data
No data
No data
No data
No data

**Solubility**Partition coefficient:
No data available
No data available

n-octanol/water

Viscosity No data Explosive properties No data Oxidizing properties No data

Other information No data available.

## SECTION 10: Stability and reactivity

Reactivity None known.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

**Conditions to avoid** No information available.

**Incompatible materials**No dangerous reaction known under conditions of normal use.

**Hazardous decomposition** 

products

No data available.

\_\_\_\_\_

## SECTION 11: Toxicological information

## Information on toxicological effects

There is no evidence available indicating acute toxicity.

#### **Principal Routes of Exposure**

**Acute toxicity** Data are conclusive but insufficient for classification.

**Skin corrosion/irritation** Data are conclusive but insufficient for classification

Serious eye damage/irritation Data are conclusive but insufficient for classification

Respiratory or skin

sensitization

Data are conclusive but insufficient for classification

Specific target organ toxicity Data are conclusive but insufficient for classification

(STOT) – single exposure

**Specific target organ toxicity** Data are conclusive but insufficient for classification

(STOT) - repeated exposure

Carcinogenicity Data are conclusive but insufficient for classification

Germ cell mutagenicity Data are conclusive but insufficient for classification

Reproductive toxicity Data are conclusive but insufficient for classification

Aspiration hazard Data are conclusive but insufficient for classification

#### SECTION 12: Ecological information

#### **Ecotoxicity**

Product code

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Mobility in soil No information available.

Persistence and degradability No information available.

**Bioaccumulative potential** No information available.

#### Results of PBT and vPvB assessment

5741G1

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other adverse effects No information available.

Revision date 05-Dec-2019

## SECTION 13: Disposal considerations

#### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations

## **SECTION 14: Transport information**

#### IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

UN number
UN proper shipping name
Transport hazard class(es)
Packing group

Not Applicable
Not Applicable
Not Applicable

**Environmental hazards** 

Not Applicable

Special precautions for user

Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not Applicable.

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## SECTION 15: Regulatory information

## **US Federal Regulations**

#### **SARA 313**

This product is not regulated by SARA.

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs

## US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

## **WHMIS Hazard Class**

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

## National Regulations - Brazil

Not regulated

#### SECTION 16: Other information

SDS sections updated. Reason for revision

**Revision number** 

05-Dec-2019 Revision date

For research use only. Not for use in diagnostic procedures.

#### References

- ECHA: http://echa.europa.eu/
- TOXNET: http://toxnet.nlm.nih.gov/
- eChemPortal: http://www.echemportal.org/
- LOLI database: https://www.chemadvisor.com/loli-database

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**End of Safety Data Sheet** 

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## Safety Data Sheet

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

## Identification of the substance or mixture

Product code 8541G2

Product name Wash Solution #1

## Company/undertaking identification

Thermo Fisher Scientific Baltics UAB

V.Graiciuno 8

LT-02241 Vilnius

Life Technologies
5250 Mainway Drive
Burlington, ONT
CANADA L7L 6A4
Tel.: +370 5 2602131

Life Technologies
5250 Mainway Drive
Burlington, ONT
CANADA L7L 6A4
800/263-6236

Fax.: +370 5 2602142

24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and

[or Dangerous Goods] Incident. Spill, Leak, Fire, 1-703-527-3887

**Exposure, or Accident. Call CHEMTREC**Outside the USA + Canada: 1-703-741-5970

**Country Specific Emergency Number (if available):** 

For research use only. Not for use in diagnostic procedures

## **SECTION 2: Hazards identification**

## **GHS Classification**

Signal Word WARNING

**Hazard pictograms** 



Revision date Product code 05-Dec-2019 8541G2

#### **Health hazards**

Acute oral toxicity	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2

## **Physical hazards**

Not classified

#### **Environmental hazards**

Not classified

#### **Hazard Statements**

H302 - Harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

## **Precautionary Statements**

#### Prevention

P273 - Avoid release to the environment

P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P270 - Do not eat, drink or smoke when using this product

#### Response

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P330 - Rinse mouth

## **Storage**

Not Applicable

#### **Disposal**

P501 - Dispose of contents/ container to an approved waste disposal plant

#### Other hazards

Not Applicable

#### **HMIS**

Health	3
Flammability	0
Reactivity	0

## SECTION 3: Composition/information on ingredients

Component	CAS No.	Common name	EINECS-No	Weight-%
2-mercaptoethanol	60-24-2	-	200-464-6	0.1-1
60-24-2 ( 0.1-1 )				
Thiocyanic acid, compound with	593-84-0	=	209-812-1	18-24
guanidine (1:1)				
593-84-0 ( 18-24 )				

We recommend handling all chemicals with caution.

#### SECTION 4: First aid measures

#### Description of first aid measures

**Skin contact** Rinse skin with water. Immediate medical attention is not required.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

**Ingestion** Not expected to present a significant ingestion hazard under anticipated conditions

of normal use. If you feel unwell, seek medical advice.

**Inhalation** Not expected to be an inhalation hazard under anticipated conditions of normal

use of this material. Consult a physician if necessary.

Notes to Physician Treat symptomatically.

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

H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation

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

None.

### SECTION 5: Firefighting measures

## **Extinguishing media**

Product code

Suitable extinguishing media Unsuitable extinguishing media Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical. No information available.

Special hazards arising from the substance or mixture None known

#### Protective equipment and precautions for firefighters

Standard procedure for chemical fires.

8541G2

Revision date 05-Dec-2019 Page 3/9

Product name Wash Solution #1

#### SECTION 6: Accidental release measures

## Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment

Use personal protection equipment

See section 8 for more information

#### **Environmental precautions**

No special environmental precautions required. Avoid discharge into drains and waterways whenever possible.

## Methods and material for containment and cleaning up

Soak up with inert absorbent material.

#### Reference to other sections

See section 8 for more information.

## SECTION 7: Handling and storage

#### Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

## Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

#### Specific end use(s)

For research use only. Not for use in diagnostic procedures.

## SECTION 8: Exposure controls/personal protection

#### Control parameters

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
2-mercaptoethanol	None	None	None	None
Thiocyanic acid,	None	None	None	None
compound with guanidine				
(1:1)				

Chemical Name	Brazil - OEL - TWAs (LTs)	Brazil - OEL - Ceilings	Brazil - OEL - Skin Designations
2-mercaptoethanol	None	None	None
Thiocyanic acid, compound with	None	None	None
guanidine (1:1)			

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

#### **Exposure controls**

#### **Personal Protective Equipment**

**Respiratory protection** In case of insufficient ventilation wear respirators and components tested and

approved under appropriate government standards.

**Hand protection** Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

Revision date05-Dec-2019Page 4/9Product code8541G2Product name Wash Solution #1

www.thermofisher.com

**Eye protection** Tight sealing safety goggles.

**Skin and Body Protection** Wear suitable protective clothing.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

#### **Environmental exposure controls**

No special environmental precautions required.

## SECTION 9: Physical and chemical properties

## Information on basic physical and chemical properties

**Appearance** liauid Odor No data No data **Odor Threshold** Molecular Weight No data Melting point / melting range °C No data °F No data Boiling point / boiling range °C No data °F No data Flash point °C No data °F No data **Autoignition Temperature** °C No data °F No data **Decomposition temperature** °C No data °F No data

**Evaporation rate** No data Flammability (solid, gas) No data **Upper explosion limit** No data Lower explosion limit No data **Vapor Pressure** No data Vapor density No data Relative density No data Specific gravity No data No data Solubility No data Partition coefficient:

n-octanol/water

Viscosity No data
Explosive properties No data
Oxidizing properties No data

#### Other information

No data.

## SECTION 10: Stability and reactivity

**Chemical stability** Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

**Conditions to avoid**No information available.

**Incompatible materials**No dangerous reaction known under conditions of normal use.

Hazardous decomposition

products

No data available.

\_\_\_\_\_

**Revision date** 05-Dec-2019 **Product code** 8541G2 Page 5/9
Product name Wash Solution #1

## SECTION 11: Toxicological information

## Information on toxicological effects

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-mercaptoethanol	244 mg/kg Oral LD50	No data available	250 ppm/8h
Thiocyanic acid, compound with	593 mg/kg	No data available	No data available
guanidine (1:1)			

## **Principal Routes of Exposure**

**Acute toxicity** Data are conclusive but insufficient for classification.

**Skin corrosion/irritation** Data are conclusive but insufficient for classification

Serious eye damage/irritation Data are conclusive but insufficient for classification

Respiratory or skin sensitization

Data are conclusive but insufficient for classification

**Specific target organ toxicity** Data are conclusive but insufficient for classification (STOT) – single exposure

**Specific target organ toxicity** Data are conclusive but insufficient for classification (STOT) – repeated exposure

Carcinogenicity Data are conclusive but insufficient for classification

Germ cell mutagenicity Data are conclusive but insufficient for classification

Reproductive toxicity Data are conclusive but insufficient for classification

Aspiration hazard Data are conclusive but insufficient for classification

## SECTION 12: Ecological information

#### **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to algae	Toxicity to daphnia	Toxicity to fish	Microtox Data	log Pow
		and other aquatic			
		invertebrates			
2-mercaptoethanol	Desmodesmus	Daphnia magna	No data available	No data available	logPow-0.056
_	subspicatus EC50=12	EC50=1.52 mg/L (48			_
	mg/L (72 h)	h)			
Thiocyanic acid, compound	No data available	No data available	No data available	No data available	No data available
with guanidine (1:1)					

**Mobility in soil** No information available.

Persistence and degradability No information available.

**Bioaccumulative potential** No information available.

Results of PBT and vPvB assessment

No information available.

Other adverse effects No information available.

## SECTION 13: Disposal considerations

#### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations

## **SECTION 14: Transport information**

#### IATA / ADR / DOT-US / IMDG

Not classified as dangerous in the meaning of transport regulations

## INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA)

This product is not classified as dangerous goods, per the International Air Transport Association.

UN number Not Applicable
UN proper shipping name Not Applicable
Transport hazard class(es) Not Applicable
Packing group Not Applicable

**Environmental hazards** 

IMDG Marine pollutant: No

Special precautions for user

Not Applicable

**Revision date** 05-Dec-2019 **Product code** 8541G2

Page 7/9 Product name Wash Solution #1

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not Applicable.

## SECTION 15: Regulatory information

Component	US TSCA
2-mercaptoethanol	Listed
60-24-2 ( 0.1-1 )	
Thiocyanic acid, compound with guanidine (1:1)	Listed
593-84-0 ( 18-24 )	

## **US Federal Regulations**

#### **SARA 313**

This product is not regulated by SARA.

## Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs

## **US State Regulations**

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## **WHMIS Hazard Class**

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

## National Regulations - Brazil

Chemical Name	CAS No.	Brazil - National Agency for Sanitary Surveillance (ANVISA)	Brazil - National List of Carcinogen Agents to Humans (LINACH)
2-mercaptoethanol	60-24-2	Not Listed	Not Listed
Thiocyanic acid, compound with guanidine (1:1)	593-84-0	Not Listed	Not Listed

#### SECTION 16: Other information

**Reason for revision** SDS sections updated.

Revision number

8541G2

Revision date 05-Dec-2019

For research use only. Not for use in diagnostic procedures.

References

Product code

Revision date 05-Dec-2019 Page 8/9

Product name Wash Solution #1

- ECHA: http://echa.europa.eu/
- TOXNET: http://toxnet.nlm.nih.gov/
- eChemPortal: http://www.echemportal.org/
- LOLI database: https://www.chemadvisor.com/loli-database

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

**End of Safety Data Sheet** 



## Safety Data Sheet

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

## Identification of the substance or mixture

Product code 9913G27

Product name Wash Solution #2/3 Concentrate

## Company/undertaking identification

Thermo Fisher Scientific Baltics UAB
V.Graiciuno 8
LT-02241 Vilnius
LThuania
CANADA L7L 6A4
Tel.: +370 5 2602131
Life Technologies
5250 Mainway Drive
Burlington, ONT
CANADA L7L 6A4
800/263-6236

Fax.: +370 5 2602142

24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and

[or Dangerous Goods] Incident. Spill, Leak, Fire, 1-703-527-3887

**Exposure, or Accident. Call CHEMTREC**Outside the USA + Canada: 1-703-741-5970

**Country Specific Emergency Number (if available):** 

For research use only. Not for use in diagnostic procedures

## **SECTION 2: Hazards identification**

**GHS Classification** 

**Signal Word** 

None

**Hazard pictograms** 

None

**Health hazards** 

Not Hazardous

Physical hazards

Not Hazardous

#### **Environmental hazards**

Not Hazardous

## **Hazard Statements**

Not Applicable

## **Precautionary Statements**

## Prevention

Not Applicable

## Response

Not Applicable

## Storage

Not Applicable

## Disposal

Not Applicable

## Other hazards

Not Applicable

#### **HMIS**

Health	0
Flammability	0
Reactivity	0

## SECTION 3: Composition/information on ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

Revision date Product code 05-Dec-2019 9913G27

#### SECTION 4: First aid measures

#### Description of first aid measures

**Skin contact** Rinse skin with water. Immediate medical attention is not required.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

**Ingestion** Not expected to present a significant ingestion hazard under anticipated conditions

of normal use. If you feel unwell, seek medical advice.

**Inhalation** Not expected to be an inhalation hazard under anticipated conditions of normal

use of this material. Consult a physician if necessary.

Notes to Physician Treat symptomatically.

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

Not Applicable

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

None.

## SECTION 5: Firefighting measures

## **Extinguishing media**

Suitable extinguishing media Unsuitable extinguishing media Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

No information available.

## Special hazards arising from the substance or mixture

Not known

## Protective equipment and precautions for firefighters

Standard procedure for chemical fires.

## SECTION 6: Accidental release measures

## Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment

Use personal protection equipment See section 8 for more information

#### **Environmental precautions**

No special environmental precautions required.

### Methods and material for containment and cleaning up

Soak up with inert absorbent material.

## Reference to other sections

Product code

See section 8 for more information.

9913G27

Revision date 05-Dec-2019 Page 3/8

## SECTION 7: Handling and storage

## Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

## Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

#### Specific end use(s)

For research use only. Not for use in diagnostic procedures.

## SECTION 8: Exposure controls/personal protection

#### Control parameters

**Exposure Limits** Contains no substances with occupational exposure limit values.

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

**Exposure controls** 

Product code

**Personal Protective Equipment** 

**Respiratory protection** In case of insufficient ventilation wear respirators and components tested and

approved under appropriate government standards.

**Hand protection** Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

**Eye protection** Tight sealing safety goggles.

**Skin and Body Protection** Wear suitable protective clothing.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls** 

9913G27

No special environmental precautions required.

Revision date 05-Dec-2019 Page 4/8

Product name Wash Solution #2/3 Concentrate

## SECTION 9: Physical and chemical properties

°F No data

°F No data

## Information on basic physical and chemical properties

Appearance liquid

Odor No data available

Odor Threshold No data Molecular Weight No data

**pH** No data available

Melting point / melting range

Boiling point / boiling range

C No data

C No data

Flash point

C No data

Flash point °C No data °F No data
Autoignition Temperature °C No data °F No data
Decomposition temperature °C No data °F No data
Evaporation rate No data

Flammability (solid, gas) No data available

Upper explosion limit
Lower explosion limit
Vapor Pressure
Vapor density
Relative density
No data

**Solubility**Partition coefficient:
No data available
No data available

n-octanol/water

Viscosity No data Explosive properties No data Oxidizing properties No data

Other information No data available.

## SECTION 10: Stability and reactivity

Reactivity None known.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

**Conditions to avoid** No information available.

**Incompatible materials**No dangerous reaction known under conditions of normal use.

**Hazardous decomposition** 

products

No data available.

Revision date 05-Dec-2019 Page 5

## SECTION 11: Toxicological information

## Information on toxicological effects

There is no evidence available indicating acute toxicity.

#### **Principal Routes of Exposure**

**Acute toxicity** Data are conclusive but insufficient for classification.

**Skin corrosion/irritation** Data are conclusive but insufficient for classification

Serious eye damage/irritation Data are conclusive but insufficient for classification

Respiratory or skin

sensitization

Data are conclusive but insufficient for classification

Specific target organ toxicity Data are conclusive but insufficient for classification

(STOT) – single exposure

Specific target organ toxicity Data are conclusive but insufficient for classification

(STOT) - repeated exposure

Carcinogenicity Data are conclusive but insufficient for classification

Germ cell mutagenicity Data are conclusive but insufficient for classification

Reproductive toxicity Data are conclusive but insufficient for classification

Aspiration hazard Data are conclusive but insufficient for classification

### SECTION 12: Ecological information

#### **Ecotoxicity**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

**Mobility in soil** No information available.

Persistence and degradability No information available.

Bioaccumulative potential No information available.

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other adverse effects No information available.

Revision date 05-Dec-2019
Product code 9913G27

## SECTION 13: Disposal considerations

#### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations

## **SECTION 14: Transport information**

#### IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

UN number
UN proper shipping name
Transport hazard class(es)
Packing group

Not Applicable
Not Applicable
Not Applicable

## **Environmental hazards**

Not Applicable

## Special precautions for user

Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not Applicable.

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## SECTION 15: Regulatory information

## **US Federal Regulations**

#### **SARA 313**

This product is not regulated by SARA.

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs

## **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## **WHMIS Hazard Class**

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

## National Regulations - Brazil

Not regulated

#### SECTION 16: Other information

**Reason for revision** SDS sections updated.

Revision number

Revision date 05-Dec-2019

For research use only. Not for use in diagnostic procedures.

#### References

- ECHA: http://echa.europa.eu/
- TOXNET: http://toxnet.nlm.nih.gov/
- eChemPortal: http://www.echemportal.org/
- LOLI database: https://www.chemadvisor.com/loli-database

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

**End of Safety Data Sheet** 

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## Safety Data Sheet

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

## Identification of the substance or mixture

Product code 9913G3

Product name Water for 64% Ethanol

## Company/undertaking identification

Thermo Fisher Scientific Baltics UAB
V.Graiciuno 8
LT-02241 Vilnius
LThuania
CANADA L7L 6A4
Tel.: +370 5 2602131
Life Technologies
5250 Mainway Drive
Burlington, ONT
CANADA L7L 6A4
800/263-6236

Fax.: +370 5 2602142

24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and

[or Dangerous Goods] Incident. Spill, Leak, Fire, 1-703-527-3887

**Exposure, or Accident. Call CHEMTREC**Outside the USA + Canada: 1-703-741-5970

**Country Specific Emergency Number (if available):** 

For research use only. Not for use in diagnostic procedures

## **SECTION 2: Hazards identification**

**GHS Classification** 

**Signal Word** 

None

**Hazard pictograms** 

None

Health hazards

Not Hazardous

Physical hazards

Not Hazardous

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**Revision date** 04-Dec-2019 **Product code** 9913G3

#### **Environmental hazards**

Not Hazardous

## **Hazard Statements**

Not Applicable

## **Precautionary Statements**

## **Prevention**

Not Applicable

## Response

Not Applicable

## Storage

Not Applicable

## Disposal

Not Applicable

## Other hazards

Not Applicable

#### **HMIS**

Health	0
Flammability	0
Reactivity	0

## SECTION 3: Composition/information on ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

Revision date Product code 04-Dec-2019 9913G3

#### SECTION 4: First aid measures

#### Description of first aid measures

**Skin contact** Rinse skin with water. Immediate medical attention is not required.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

**Ingestion** Not expected to present a significant ingestion hazard under anticipated conditions

of normal use. If you feel unwell, seek medical advice.

**Inhalation** Not expected to be an inhalation hazard under anticipated conditions of normal

use of this material. Consult a physician if necessary.

Notes to Physician Treat symptomatically.

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

Not Applicable

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

None.

## SECTION 5: Firefighting measures

## **Extinguishing media**

Suitable extinguishing media Unsuitable extinguishing media Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

No information available.

## Special hazards arising from the substance or mixture

Not known

## Protective equipment and precautions for firefighters

Standard procedure for chemical fires.

## SECTION 6: Accidental release measures

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

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment

Use personal protection equipment See section 8 for more information

#### **Environmental precautions**

No special environmental precautions required.

### Methods and material for containment and cleaning up

Soak up with inert absorbent material.

## Reference to other sections

Product code

See section 8 for more information.

9913G3

Revision date 04-Dec-2019 Page 3/8

## SECTION 7: Handling and storage

## Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

## Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

## Specific end use(s)

For research use only. Not for use in diagnostic procedures.

## SECTION 8: Exposure controls/personal protection

## Control parameters

**Exposure Limits** Contains no substances with occupational exposure limit values.

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

**Exposure controls** 

**Personal Protective Equipment** 

**Respiratory protection** In case of insufficient ventilation wear respirators and components tested and

approved under appropriate government standards.

**Hand protection** Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

**Eye protection** Tight sealing safety goggles.

**Skin and Body Protection** Wear suitable protective clothing.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls** 

No special environmental precautions required.

## SECTION 9: Physical and chemical properties

°F No data

## Information on basic physical and chemical properties

Appearance liquid

Odor No data available

Odor Threshold No data Molecular Weight No data

**pH** No data available

Melting point / melting range°CNo data°FNo dataBoiling point / boiling range°CNo data°FNo dataFlash point°CNo data°FNo dataAutoignition Temperature°CNo data°FNo data

Decomposition temperature °C No data Evaporation rate No data

Flammability (solid, gas) No data available

Upper explosion limit
Lower explosion limit
Vapor Pressure
Vapor density
Relative density
No data
No data
No data
No data
No data
No data

Solubility No data available Partition coefficient: No data available

n-octanol/water

Viscosity No data Explosive properties No data Oxidizing properties No data

Other information No data available.

## SECTION 10: Stability and reactivity

Reactivity None known.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

**Conditions to avoid** No information available.

**Incompatible materials**No dangerous reaction known under conditions of normal use.

Hazardous decomposition

products

No data available.

Revision date 04-Dec-2019 Page 5

## SECTION 11: Toxicological information

## Information on toxicological effects

There is no evidence available indicating acute toxicity.

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Revision number

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**End of Safety Data Sheet** 

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Product code 9913G3 Product name Water for 64% Ethanol