# SAFETY DATA SHEET



ProteoAnalyzer Verification Kit, Part Number 5191-6642

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

1.1 Product identifier

**Product name** : ProteoAnalyzer Verification Kit, Part Number 5191-6642

: Protein Fluorescent Dye **CAS** number Not available. Dye Resuspension DMF 68-12-2 Capilary Storage Solution Not applicable.

Protein Conditioning Not applicable.

Solution

2x Protein Inlet Buffer Not applicable. Protein Broad Range Gel Not applicable. Not applicable. P240 Broad Range

Ladder

10x Protein Labeling

Buffer

Not applicable.

: 5191-6642 Part no. (chemical kit)

Protein Verification Kit, Part no. 5008-0020

RT

Protein Fluorescent Dye 5191-6650 Dye Resuspension DMF 5191-6651 Capilary Storage Solution GP-440-0100 Protein Conditioning 5008-0015

Solution

2x Protein Inlet Buffer 5008-0017 Protein Broad Range Gel 5008-0016 Protein Verification Kit, 5008-0019

<u>-20C</u>

P240 Broad Range

Ladder

10x Protein Labeling Buffer

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

**Identified uses** : Analytical reagent.

> Protein Fluorescent Dye 50 µg Dye Resuspension DMF 1.5 ml Capilary Storage Solution 100 ml **Protein Conditioning Solution** 175 ml 2x Protein Inlet Buffer 75 ml Protein Broad Range Gel 60 ml P240 Broad Range Ladder 0.03 ml 10x Protein Labeling Buffer 1.1 ml

5191-6648

5191-6647

Uses advised against : None known.

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

Agilent Technologies LDA UK Ltd. 5500 Lakeside Cheadle Royal Business Park, Cheadle, Cheshire, SK8 3GR

United Kingdom

Tel: +44 (0) 345 712 5292

e-mail address of person : pdl-msds\_author@agilent.com

responsible for this SDS

## 1.4 Emergency telephone number

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version: 2.1 1/41

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

Emergency telephone number (with hours of operation)

: CHEMTREC®: +(44)-870-8200418

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Product definition : Protein Fluorescent Dye Mono-constituent substance Dye Resuspension DMF Mono-constituent substance

Capilary Storage Solution Mixture Protein Conditioning Mixture

Solution

2x Protein Inlet Buffer Mixture
Protein Broad Range Gel Mixture
P240 Broad Range Mixture

Ladder

10x Protein Labeling Mixture

Buffer

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

## **Dye Resuspension**

**DMF** 

H226FLAMMABLE LIQUIDSCategory 3H312ACUTE TOXICITY (dermal)Category 4H332ACUTE TOXICITY (inhalation)Category 4H319SERIOUS EYE DAMAGE/EYE IRRITATIONCategory 2H360DREPRODUCTIVE TOXICITYCategory 1B

# Capilary Storage Solution

H317 SKIN SENSITISATION

Category 1

▶rotein Fluorescent Dye The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Dye Resuspension DMF

The product is classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Capilary Storage Solution The product is classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Protein Conditioning Solution The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

2x Protein Inlet Buffer The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Protein Broad Range Gel The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

P240 Broad Range Ladder The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

10x Protein Labeling Buffer The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

# Ingredients of unknown

toxicity

: Capilary Storage Solution Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: > 60%

Protein Conditioning Percentage of the mixture consisting of ingredient(s) of

Solution unknown acute inhalation toxicity: 10 - 30%

2x Protein Inlet Buffer Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

Protein Broad Range Gel Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

P240 Broad Range Ladder Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

10x Protein Labeling Buffer Percentage of the mixture consisting of ingredient(s) of

unknown acute dermal toxicity: 10 - 30%

Percentage of the mixture consisting of ingredient(s) of

Date of issue/Date of revision: 11/01/2024Date of previous issue: 29/11/2023Version: 2.12/41

## **SECTION 2: Hazards identification**

unknown acute inhalation toxicity: 10 - 30%

Percentage of the mixture consisting of ingredient(s) of

unknown acute oral toxicity: 10 - 30%

Ingredients of unknown

ecotoxicity

Protein Broad Range Gel

: 2x Protein Inlet Buffer

Contains 4.5% of components with unknown hazards to the

aquatic environment

Contains 2.2% of components with unknown hazards to the

aquatic environment

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

**Hazard pictograms** 

: Dye Resuspension DMF





Capilary Storage Solution

Signal word

: Protein Fluorescent Dye Dye Resuspension DMF

Capilary Storage Solution Warning Protein Conditioning

Solution

2x Protein Inlet Buffer

P240 Broad Range

Ladder

10x Protein Labeling Buffer

No signal word.

Danger

No signal word.

No signal word. Protein Broad Range Gel No signal word. No signal word.

No signal word.

**Hazard statements** 

: Protein Fluorescent Dye Dye Resuspension DMF

No known significant effects or critical hazards.

H226 - Flammable liquid and vapour.

H312 + H332 - Harmful in contact with skin or if inhaled.

H319 - Causes serious eye irritation. H360D - May damage the unborn child. Capilary Storage Solution H317 - May cause an allergic skin reaction.

Protein Conditioning

Solution

2x Protein Inlet Buffer

Protein Broad Range Gel P240 Broad Range

Ladder

10x Protein Labeling

Buffer

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

## **Precautionary statements**

**Prevention** 

: Protein Fluorescent Dye

Not applicable.

Dye Resuspension DMF

P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing and eye or

face protection.

Not applicable.

P210 - Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P261 - Avoid breathing vapour.

Capilary Storage Solution P280 - Wear protective gloves.

P261 - Avoid breathing vapour.

Protein Conditionina

Solution

2x Protein Inlet Buffer

Not applicable. Protein Broad Range Gel Not applicable. P240 Broad Range Not applicable.

: 11/01/2024 Date of previous issue Date of issue/Date of revision : 29/11/2023 Version: 2.1

## SECTION 2: Hazards identification

Ladder

10x Protein Labeling

Buffer

Not applicable.

Response

**Storage** 

**Disposal** 

: Protein Fluorescent Dye

Not applicable.

Dye Resuspension DMF

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

or attention.

Capilary Storage Solution P362 + P364 - Take off contaminated clothing and wash it

P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical

advice or attention.

Protein Conditioning

Solution

Not applicable.

2x Protein Inlet Buffer Not applicable. Protein Broad Range Gel P240 Broad Range

Ladder

Not applicable. Not applicable.

10x Protein Labeling

Not applicable.

Buffer

: Protein Fluorescent Dye

Dye Resuspension DMF Capilary Storage Solution Protein Conditioning

Not applicable.

Not applicable. Not applicable. Not applicable.

Solution

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Not applicable. Not applicable. Not applicable.

Ladder

10x Protein Labeling

Not applicable.

Buffer

: Protein Fluorescent Dye

Not applicable.

Dye Resuspension DMF

P501 - Dispose of contents and container in accordance with

all local, regional, national and international regulations.

Capilary Storage Solution P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Protein Conditioning** Not applicable.

Solution

2x Protein Inlet Buffer

Protein Broad Range Gel P240 Broad Range

Not applicable. Not applicable. Not applicable.

Ladder

10x Protein Labeling

Not applicable.

Buffer

**Hazardous ingredients** 

**Annex XVII - Restrictions :** 

on the manufacture,

placing on the market

Supplemental label elements

: Capilary Storage Solution

2-methylisothiazol-3(2H)-one

Protein Fluorescent Dye Dye Resuspension DMF

Protein Conditioning

Not applicable. Not applicable. Capilary Storage Solution Not applicable. Not applicable.

Solution

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Safety data sheet available on request. Safety data sheet available on request. Safety data sheet available on request.

Ladder

10x Protein Labeling

Safety data sheet available on request.

Buffer

Protein Fluorescent Dye Dye Resuspension DMF Not applicable. Restricted to professional users.

Capilary Storage Solution Not applicable. **Protein Conditioning** 

Not applicable.

and use of certain Solution dangerous substances, mixtures and articles

2x Protein Inlet Buffer

Not applicable. Protein Broad Range Gel Not applicable.

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version : 2.1 4/41

# **SECTION 2: Hazards identification**

P240 Broad Range

Ladder

Not applicable.

10x Protein Labeling

Not applicable.

Buffer

#### **Special packaging requirements**

Containers to be fitted with child-resistant fastenings

: Protein Fluorescent Dve Dye Resuspension DMF Capilary Storage Solution Not applicable. Protein Conditioning

Not applicable. Not applicable. Not applicable.

Solution

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Not applicable. Not applicable. Not applicable.

Ladder

10x Protein Labeling

Not applicable.

Buffer

**Tactile warning of** danger

Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution Not applicable. Protein Conditioning Solution

Not applicable. Not applicable. Not applicable.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Not applicable. Not applicable. Not applicable.

Ladder 10x Protein Labeling

Not applicable.

Buffer

#### 2.3 Other hazards

**Product meets the** criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, **Annex XIII** 

PBT	Р	В	T	vPvB	vP	vB
Protein Fluorescent Dye N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dye Resuspension DMF No	N/A	No	Yes	No	N/A	No

Capilary Storage Solution This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Protein Conditioning Solution

Ladder

Buffer

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

2x Protein Inlet Buffer

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Protein Broad Range Gel

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

P240 Broad Range

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

10x Protein Labeling

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution None known.

May form combustible dust concentrations in air. None known.

**Protein Conditioning** Solution

None known.

2x Protein Inlet Buffer Protein Broad Range Gel None known. P240 Broad Range

None known. None known.

Ladder

Date of previous issue : 11/01/2024

: 29/11/2023

Version: 2.1

# **SECTION 2: Hazards identification**

10x Protein Labeling Buffer None known.

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

3.1 Substances

: Protein Fluorescent Dye
Dye Resuspension DMF
Capilary Storage Solution
Protein Conditioning Solution

Protein Conditioning Solution 2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range Ladder 10x Protein Labeling Buffer Mono-constituent substance Mono-constituent substance

Mixture
Mixture
Mixture
Mixture
Mixture
Mixture
Mixture

Product/ingredient name	Identifiers	%	Classification	Type
Protein Fluorescent Dye Proprietary	-	100	Not classified.	[1]
<b>Dye Resuspension DMF</b> N,N-Dimethylformamide	EC: 200-679-5 CAS: 68-12-2	100	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Eye Irrit. 2, H319 Repr. 1B, H360D	[1]
Capilary Storage Solution Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
2-methylisothiazol-3(2H)-one	EC: 220-239-6 CAS: 2682-20-4 Index: 613-326-00-9	<0.1	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1) EUH071	[1]
2x Protein Inlet Buffer Trometamol	EC: 201-064-4 CAS: 77-86-1	≤5	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
Protein Broad Range Gel Trometamol	EC: 201-064-4 CAS: 77-86-1	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
P240 Broad Range Ladder Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[1]
10x Protein Labeling Buffer Sodium dodecyl sulphate	EC: 205-788-1 CAS: 151-21-3	≤5	Flam. Sol. 2, H228 Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400	[1]
eto of issue/Date of revision : 11/	01/2024 Date of provious issue	• 20/11/2023	Version : 2.1	

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version : 2.1 6/41

ProteoAnalyzer Verification Kit, Part Number 5191-6642 **SECTION 3: Composition/information on ingredients** (M=1)Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

#### Type

Protein Fluorescent Dye Dye Resuspension DMF

Capilary Storage Solution

2x Protein Inlet Buffer Protein Broad Range Gel

P240 Broad Range Ladder 10x Protein Labeling Buffer [1] Constituent

[1] Constituent

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[1] Substance classified with a health or environmental hazard

[1] Substance classified with a health or environmental hazard

[1] Substance with a workplace exposure limit

[1] Substance classified with a health or environmental hazard

Occupational exposure limits, if available, are listed in Section 8.

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

# 4.1 Description of first aid measures

**Eye contact** 

Inhalation

: Protein Fluorescent Dye

Dye Resuspension DMF

Capilary Storage Solution

Protein Conditioning Solution

2x Protein Inlet Buffer

Protein Broad Range Gel

P240 Broad Range Ladder

10x Protein Labeling Buffer

: Protein Fluorescent Dye

Dye Resuspension DMF

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove

any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes.

Get medical attention.

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove

any contact lenses. Continue to rinse for at least 10 minutes.

Get medical attention if irritation occurs.

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally

lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally

lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-tomouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in

Date of issue/Date of revision Date of previous issue : 29/11/2023 Version: 2.1 : 11/01/2024

<sup>\*</sup> Non-hazardous ingredients

# SECTION 4: First aid measures

recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Capilary Storage Solution Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-tomouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Protein Conditioning Solution

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

2x Protein Inlet Buffer

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Protein Broad Range Gel Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Remove victim to fresh air and keep at rest in a position

P240 Broad Range Ladder

comfortable for breathing. Get medical attention if symptoms

10x Protein Labeling

Buffer

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact** 

: Protein Fluorescent Dye

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Dye Resuspension DMF

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Capilary Storage Solution

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before

Protein Conditioning

Solution

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

2x Protein Inlet Buffer

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

Date of issue/Date of revision Date of previous issue : 29/11/2023 : 11/01/2024 Version: 2.1

## SECTION 4: First aid measures

Protein Broad Range Gel Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

P240 Broad Range

Ladder

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

10x Protein Labeling

Buffer

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

Ingestion : Protein Fluorescent Dye Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Dye Resuspension DMF

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Capilary Storage Solution Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention

immediately. Maintain an open airway. Loosen tight clothing

such as a collar, tie, belt or waistband.

Protein Conditioning

Solution

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

2x Protein Inlet Buffer

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Protein Broad Range Gel

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

P240 Broad Range

Ladder

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

10x Protein Labeling

Buffer

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version: 2.1 9/41

## SECTION 4: First aid measures

Protection of first-aiders : Protein Fluorescent Dye

No action shall be taken involving any personal risk or without

suitable training.

Dye Resuspension DMF No action shall be taken involving any personal risk or without

suitable training. If it is suspected that fumes are still present,

the rescuer should wear an appropriate mask or selfcontained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before

removing it, or wear gloves.

Capilary Storage Solution No action shall be taken involving any personal risk or without

> suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing

it, or wear gloves.

Protein Conditioning

2x Protein Inlet Buffer

No action shall be taken involving any personal risk or without suitable training.

Solution

No action shall be taken involving any personal risk or without

suitable training.

No action shall be taken involving any personal risk or without Protein Broad Range Gel

suitable training.

P240 Broad Range

Ladder

No action shall be taken involving any personal risk or without

suitable training. No action shall be taken involving any personal risk or without

10x Protein Labeling

Buffer suitable training.

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

Over-exposure signs/symptoms

Inhalation

**Eye contact** 

: Protein Fluorescent Dye Adverse symptoms may include the following:

> irritation redness

Dye Resuspension DMF Adverse symptoms may include the following:

> pain or irritation watering

redness

Capilary Storage Solution No specific data. Protein Conditioning

No specific data.

Solution

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

No specific data. No specific data. No specific data.

Ladder

10x Protein Labeling

No specific data.

Buffer

: Protein Fluorescent Dye Adverse symptoms may include the following:

respiratory tract irritation

coughing

Dye Resuspension DMF Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Capilary Storage Solution No specific data. Protein Conditioning

No specific data.

Solution

2x Protein Inlet Buffer No specific data.

Protein Broad Range Gel P240 Broad Range

No specific data. No specific data.

Ladder

10x Protein Labeling No specific data.

Buffer

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version : 2.1 10/41

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

**Skin contact** 

: Protein Fluorescent Dye No specific data.

Dye Resuspension DMF Adverse symptoms may include the following:

> reduced foetal weight increase in foetal deaths skeletal malformations

Capilary Storage Solution Adverse symptoms may include the following:

irritation redness

Protein Conditioning

Solution

No specific data.

2x Protein Inlet Buffer No specific data. Protein Broad Range Gel No specific data. P240 Broad Range No specific data.

Ladder

10x Protein Labeling No specific data.

Buffer

: Protein Fluorescent Dye Ingestion No specific data.

Dye Resuspension DMF Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Capilary Storage Solution No specific data.

**Protein Conditioning** 

Solution

No specific data.

2x Protein Inlet Buffer No specific data. Protein Broad Range Gel No specific data. P240 Broad Range No specific data.

Ladder

10x Protein Labeling

Buffer

No specific data.

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

Notes to physician

: Protein Fluorescent Dye

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Dye Resuspension DMF

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need

to be kept under medical surveillance for 48 hours.

Capilary Storage Solution In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need

to be kept under medical surveillance for 48 hours.

**Protein Conditioning** 

Solution

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need

to be kept under medical surveillance for 48 hours.

2x Protein Inlet Buffer

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need

to be kept under medical surveillance for 48 hours.

Protein Broad Range Gel

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need

to be kept under medical surveillance for 48 hours.

P240 Broad Range

Ladder

10x Protein Labeling

Buffer

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Version

: 2.1

**Specific treatments** 

: Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution

Protein Conditioning

Solution

No specific treatment. No specific treatment. No specific treatment. No specific treatment.

2x Protein Inlet Buffer Protein Broad Range Gel No specific treatment. P240 Broad Range

No specific treatment. No specific treatment.

Ladder

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023

# **SECTION 4: First aid measures**

10x Protein Labeling Buffer

No specific treatment.

# **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media

: Protein Fluorescent Dye

Dye Resuspension DMF

**Protein Conditioning** 

Solution

Use dry chemical powder.

Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Capilary Storage Solution Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Ladder

Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.

10x Protein Labeling Buffer

Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing**: Protein Fluorescent Dye media

Avoid high pressure media which could cause the formation

of a potentially explosible dust-air mixture.

Dye Resuspension DMF Capilary Storage Solution None known.

Protein Conditioning

Solution

Do not use water jet.

None known.

None known.

2x Protein Inlet Buffer Protein Broad Range Gel

P240 Broad Range Ladder

None known. None known.

10x Protein Labeling Buffer

None known.

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

**Hazards from the** substance or mixture : Protein Fluorescent Dye Dye Resuspension DMF May form explosible dust-air mixture if dispersed.

Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than

air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable

distance to a source of ignition and flash back.

Capilary Storage Solution In a fire or if heated, a pressure increase will occur and the

container may burst.

Protein Conditioning

Solution

In a fire or if heated, a pressure increase will occur and the

container may burst.

2x Protein Inlet Buffer

In a fire or if heated, a pressure increase will occur and the

container may burst.

Protein Broad Range Gel

In a fire or if heated, a pressure increase will occur and the

container may burst.

P240 Broad Range

Ladder

In a fire or if heated, a pressure increase will occur and the

container may burst.

10x Protein Labeling

Buffer

In a fire or if heated, a pressure increase will occur and the

container may burst.

**Hazardous combustion** products

Protein Fluorescent Dye Dye Resuspension DMF No specific data.

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

Capilary Storage Solution Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

Protein Conditioning

Decomposition products may include the following materials:

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version: 2.1 12/41

# **SECTION 5: Firefighting measures**

Solution

carbon dioxide carbon monoxide nitrogen oxides

2x Protein Inlet Buffer

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

Protein Broad Range Gel Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

P240 Broad Range

Ladder

Decomposition products may include the following materials:

carbon dioxide carbon monoxide

10x Protein Labeling

Buffer

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides

5.3 Advice for firefighters **Special protective** actions for fire-fighters

: Protein Fluorescent Dye

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Dye Resuspension DMF

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Capilary Storage Solution

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Protein Conditioning** 

Solution

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

2x Protein Inlet Buffer

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be

Protein Broad Range Gel

taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be

P240 Broad Range

Ladder

taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be

10x Protein Labeling Buffer

: 11/01/2024

taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective** equipment for firefighters

: Protein Fluorescent Dye

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Dye Resuspension DMF

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

: 29/11/2023

Capilary Storage Solution Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Version: 2.1

13/41

Date of issue/Date of revision

Date of previous issue

# **SECTION 5: Firefighting measures**

Protein Conditioning Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

2x Protein Inlet Buffer Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

Protein Broad Range Gel Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

P240 Broad Range

Ladder

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

10x Protein Labeling

Buffer

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

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

## 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Protein Fluorescent Dye

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective

equipment.

Dye Resuspension DMF No action shall be taken involving any personal risk or without

suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

Put on appropriate personal protective equipment.

Capilary Storage Solution No action shall be taken involving any personal risk or without

suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear

appropriate respirator when ventilation is inadequate. Put on

appropriate personal protective equipment.

Protein Conditioning

Solution

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep

unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate

personal protective equipment.

2x Protein Inlet Buffer No action shall be taken involving any personal risk or without

suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate

personal protective equipment.

Protein Broad Range Gel No action shall be taken involving any personal risk or without

suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate

personal protective equipment.

P240 Broad Range

Ladder

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep

unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate

personal protective equipment.

10x Protein Labeling

Buffer

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep

unnecessary and unprotected personnel from entering. Do

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version : 2.1 14/41

# **SECTION 6: Accidental release measures**

For	em	erç	jen	Су
res	pon	de	rs	

: Frotein Fluorescent Dye

not touch or walk through spilt material. Put on appropriate personal protective equipment.

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Dye Resuspension DMF If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and

unsuitable materials. See also the information in "For non-

emergency personnel".

Capilary Storage Solution If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

Protein Conditioning

Solution

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

Protein Broad Range Gel If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

P240 Broad Range

Ladder

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

10x Protein Labeling

Buffer

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

# **6.2 Environmental precautions**

: Protein Fluorescent Dye

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Dye Resuspension DMF Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Capilary Storage Solution Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

**Protein Conditioning** 

Solution

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant

authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

2x Protein Inlet Buffer Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Protein Broad Range Gel Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

P240 Broad Range

Ladder

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version : 2.1 15/41

# **SECTION 6: Accidental release measures**

10x Protein Labeling Buffer

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

Methods for cleaning up : Protein Fluorescent Dye Move containers from spill area. Use spark-proof tools and

explosion-proof equipment. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

Dye Resuspension DMF Stop leak if without risk. Move containers from spill area.

Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

Capilary Storage Solution Stop leak if without risk. Move containers from spill area.

Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

**Protein Conditioning** 

Solution

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

2x Protein Inlet Buffer Stop leak if without risk. Move containers from spill area.

Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

Protein Broad Range Gel Stop leak if without risk. Move containers from spill area.

Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

P240 Broad Range

Ladder

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

10x Protein Labeling

Buffer

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Protective measures : Protein Fluorescent Dye

Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version : 2.1 16/41

# SECTION 7: Handling and storage

electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.

Dye Resuspension DMF

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Capilary Storage Solution

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Protein Conditioning Solution

Put on appropriate personal protective equipment (see Section 8).

2x Protein Inlet Buffer

Put on appropriate personal protective equipment (see Section 8).

Protein Broad Range Gel

Put on appropriate personal protective equipment (see

Section 8).

P240 Broad Range

Ladder

Put on appropriate personal protective equipment (see

Section 8).

10x Protein Labeling

Buffer

Put on appropriate personal protective equipment (see

Section 8).

Advice on general occupational hygiene : Protein Fluorescent Dye

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Dye Resuspension DMF

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Capilary Storage Solution Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

**Protein Conditioning** Solution

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

Date of issue/Date of revision Date of previous issue : 29/11/2023 Version: 2.1 : 11/01/2024 17/41

# **SECTION 7: Handling and storage**

2x Protein Inlet Buffer

for additional information on hygiene measures.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective

equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Protein Broad Range Gel

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

P240 Broad Range Ladder

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

10x Protein Labeling Buffer

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

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

**Storage** 

: Protein Fluorescent Dye

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and wellventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Dye Resuspension DMF

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and wellventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Capilary Storage Solution Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and wellventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials

before handling or use.

**Protein Conditioning** Solution

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-

Date of issue/Date of revision Date of previous issue : 29/11/2023 Version: 2.1 : 11/01/2024 18/41

# **SECTION 7: Handling and storage**

ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

2x Protein Inlet Buffer

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials

before handling or use.

Protein Broad Range Gel

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

P240 Broad Range Ladder

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials

before handling or use.

10x Protein Labeling Buffer

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### **Seveso Directive - Reporting thresholds**

**Danger criteria** 

	Notification and MAPP threshold	Safety report threshold
<b>Dye Resuspension DMF</b> P5c	5000 tonne	50000 tonne

## 7.3 Specific end use(s)

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version : 2.1 19/41

# SECTION 7: Handling and storage

Recommendations

Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution **Protein Conditioning** 

Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.

Solution

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.

Ladder 10x Protein Labeling

Industrial applications, Professional applications.

Buffer

**Industrial sector specific** solutions

: Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution Not available. **Protein Conditioning** Solution

Not available. Not available. Not available.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range Ladder

Not available. Not available. Not available.

10x Protein Labeling Buffer

Not available.

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

## 8.1 Control parameters

## Occupational exposure limits

Product/ingredient name	Exposure limit values
Dye Resuspension DMF	
N,N-Dimethylformamide	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 30 mg/m³ 15 minutes.
	STEL: 10 ppm 15 minutes.
	TWA: 5 ppm 8 hours.
	TWA: 15 mg/m³ 8 hours.
Capilary Storage Solution	
Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 10 mg/m³ 8 hours. Form: Mist
P240 Broad Range Ladder	
Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
,	TWA: 10 mg/m³ 8 hours. Form: Mist

#### **Biological exposure indices**

No exposure indices known.

Recommended monitoring procedures : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

## **DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
Dye Resuspension DMF N,N-Dimethylformamide	DNEL	Long term Inhalation	6 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	1.1 mg/kg bw/day	Workers	Systemic
Capilary Storage Solution Glycerol	DNEL	Long term Inhalation	33 mg/m³	General population	Local

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version: 2.1 20/41

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

<u> </u>		•	I · ·	I	1.
	DNEL	Long term Inhalation	56 mg/m³	Workers	Local
	DNEL	Long term Oral	229 mg/kg bw/day	General population	Systemic
2-methylisothiazol-3(2H)-one	DNEL	Long term	0.021 mg/	General	Local
	DNEL	Inhalation Long term	m³ 0.021 mg/	population Workers	Local
	DNEL	Inhalation Long term Oral	m <sup>3</sup> 0.027 mg/	General	Systemic
		Short term	kg bw/day 0.043 mg/	population General	
	DNEL	Inhalation	m³	population	Local
	DNEL	Short term Inhalation	0.043 mg/ m³	Workers	Local
	DNEL	Short term Oral	0.053 mg/ kg bw/day	General population	Systemic
			ng bwiday	Population	
2x Protein Inlet Buffer Trometamol	DNEL	Long term Oral	8.3 mg/kg	General	Systemic
	DNEL	Long term	bw/day 29 mg/m³	population General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	83.3 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	117.5 mg/ m³	Workers	Systemic
	DNEL	Long term Dermal	166.7 mg/ kg bw/day	Workers	Systemic
Buttila But I B			ng bw/day		
Protein Broad Range Gel Trometamol	DNEL	Long term Oral	8.3 mg/kg	General	Systemic
	DNEL	Long term	bw/day 29 mg/m³	population General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	83.3 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	117.5 mg/ m³	Workers	Systemic
	DNEL	Long term Dermal	166.7 mg/ kg bw/day	Workers	Systemic
P240 Broad Range Ladder					
Glycerol	DNEL	Long term Inhalation	33 mg/m³	General population	Local
	DNEL	Long term	56 mg/m³	Workers	Local
	DNEL	Inhalation Long term Oral	229 mg/kg bw/day	General population	Systemic
10x Protein Labeling Buffer					
Sodium dodecyl sulphate	DNEL	Long term Oral	24 mg/kg	General	Systemic
	DNEL	Long term	bw/day 85 mg/m³	population General	Systemic
	DNEL	Inhalation Long term	285 mg/m³	population Workers	Systemic
	DNEL	Inhalation Long term Dermal	2440 mg/	General	Systemic
	DNEL	Long term Dermal	kg bw/day 4060 mg/ kg bw/day	population Workers	Systemic
			g Swaay		

**PNECs** 

No PNECs available

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version : 2.1 21/41

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

#### 8.2 Exposure controls

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### **Skin protection**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Environmental exposure controls** 

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

## 9.1 Information on basic physical and chemical properties

#### **Appearance**

**Physical state** 

Protein Fluorescent Dye Solid. [Lyophilized Powder.]

Dye Resuspension DMF Liquid. Capilary Storage Solution Liquid. Protein Conditioning Liquid.

Solution

2x Protein Inlet Buffer Liquid. Protein Broad Range Gel Liquid. P240 Broad Range Liquid.

Ladder

10x Protein Labeling Liquid.

Buffer

Date of issue/Date of revision: 11/01/2024Date of previous issue: 29/11/2023Version: 2.1

# SECTION 9: Physical and chemical properties

Colour

: Protein Fluorescent Dye Yellow./ Brown. Dye Resuspension DMF Colourless to light yellow.

> Capilary Storage Solution Not available. **Protein Conditioning** Not available.

Solution

2x Protein Inlet Buffer Not available. Protein Broad Range Gel Not available. P240 Broad Range Not available.

Ladder

10x Protein Labeling Not available.

Buffer

: Protein Fluorescent Dye Odour Not available.

> Dye Resuspension DMF Faint odour. [Slight] Capilary Storage Solution Not available.

> > Not available.

**Protein Conditioning** Solution

2x Protein Inlet Buffer Not available. Protein Broad Range Gel Not available. P240 Broad Range Not available.

Ladder

10x Protein Labeling Not available.

Buffer

**Odour threshold** : Protein Fluorescent Dye Not available. Dye Resuspension DMF Not available.

Capilary Storage Solution Not available. Protein Conditionina Not available.

Solution

2x Protein Inlet Buffer Not available. Protein Broad Range Gel Not available. P240 Broad Range Not available.

Ladder

10x Protein Labeling Not available.

Buffer

point

Melting point/freezing Protein Fluorescent Dye Not available.

> Dye Resuspension DMF -61°C Capilary Storage Solution Not available. Protein Conditioning Not available.

Solution

2x Protein Inlet Buffer Not available. Protein Broad Range Gel Not available. P240 Broad Range Not available.

Ladder

10x Protein Labeling Not available.

Buffer

: Protein Fluorescent Dye Initial boiling point and Not available. Dye Resuspension DMF 153°C boiling range Capilary Storage Solution Not available.

Protein Conditioning Not available.

Solution

2x Protein Inlet Buffer Not available. Protein Broad Range Gel Not available. P240 Broad Range Not available.

Ladder

10x Protein Labeling Not available.

Buffer

**Flammability** Protein Fluorescent Dye Not available.

Dye Resuspension DMF Not applicable. Capilary Storage Solution Not applicable. Protein Conditioning Not applicable.

Solution

2x Protein Inlet Buffer Not applicable. Protein Broad Range Gel Not applicable. Not applicable. P240 Broad Range

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version : 2.1 23/41

# SECTION 9: Physical and chemical properties

Ladder

10x Protein Labeling

Not applicable.

Buffer

or explosive limits

**Upper/lower flammability**: Protein Fluorescent Dye Not applicable. Dye Resuspension DMF Lower: 2.2%

Upper: 15.2%

Capilary Storage Solution Not available. Protein Conditioning Not available.

Solution

2x Protein Inlet Buffer Not available. Protein Broad Range Gel Not available. P240 Broad Range Not available.

Ladder

10x Protein Labeling Not available.

Buffer

Flash point : Protein Fluorescent Dye Not applicable.

Closed cup: 57.5°C [DIN 51755] Dye Resuspension DMF

Capilary Storage Solution Not available. **Protein Conditioning** Not available.

Solution

2x Protein Inlet Buffer Not available. Protein Broad Range Gel Not available. P240 Broad Range Not available.

Ladder

10x Protein Labeling Not available.

Buffer

	Closed cup		Open cup		
Ingredient name	°C	Method	°C	Method	
Capilary Storage Solution					
glycerol	-	-	177	-	
P240 Broad Range Ladder					
glycerol	-	-	177	-	
10x Protein Labeling Buffer					
sodium dodecyl sulphate	170	-	-	-	

**Auto-ignition** temperature

: Protein Fluorescent Dye Not applicable. Dye Resuspension DMF 445°C

Ingredient name	°C	Method
Capilary Storage Solution		
glycerol	370	-
P240 Broad Range Ladder		
glycerol	370	-
10x Protein Labeling Buffer		
sodium dodecyl sulphate	310.5	VDI 2263

Date of issue/Date of revision Date of previous issue : 29/11/2023 Version: 2.1 : 11/01/2024 24/41

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

Decomposition : Protein Fluorescent Dye Not available.

Dye Resuspension DMF >350°C
Capilary Storage Solution Not available.
Protein Conditioning Not available.

Solution

2x Protein Inlet Buffer Not available.

Protein Broad Range Gel Not available.

P240 Broad Range Not available.

Ladder

10x Protein Labeling Not available.

Buffer

: Protein Fluorescent Dye Not available.

Dye Resuspension DMF 6.7 Capilary Storage Solution 8.3

Protein Conditioning 9.68 to 9.94

Solution

2x Protein Inlet Buffer8.18 to 8.31Protein Broad Range Gel8 to 8.5P240 Broad Range8.4 to 8.6

Ladder

10x Protein Labeling 8.87

Buffer

Viscosity : Protein Fluorescent Dye Not applicable.

Dye Resuspension DMF Dynamic: 0.802 mPa·s

Capilary Storage Solution Not available. Protein Conditioning Not available.

Solution

2x Protein Inlet Buffer Not available. Protein Broad Range Gel Not available. P240 Broad Range Not available.

Ladder

10x Protein Labeling Not available.

Buffer

Solubility(ies) : Media Result

Protein Fluorescent Dye
water

Dye Resuspension DMF
water

Soluble
Soluble

Capilary Storage Solution
water Soluble

Protein Conditioning Solution

water
2x Protein Inlet Buffer

water
Protein Broad Range Gel
water
Soluble
Soluble

P240 Broad Range Ladder
water Soluble

10x Protein Labeling Buffer water

Partition coefficient: noctanol/water

pН

Protein Fluorescent Dye Not applicable.

Dye Resuspension DMF -1.01
Capilary Storage Solution Not applicable.

Protein Conditioning

Solution

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range Ladder

Not applicable. Not applicable.

Not applicable.

Not applicable.

Soluble

10x Protein Labeling Buffer Not applicable.

Vapour pressure : Dye Resuspension DMF 0.49 kPa (3.7 mm Hg)

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version : 2.1 25/41

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

	Vapour	Pressure	e at 20°C	Vap	our press	sure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Capilary Storage Solution						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Protein Conditioning Solution						
water	17.5	2.3	-	92.258	12.3	-
2x Protein Inlet Buffer						
water	17.5	2.3	-	92.258	12.3	-
trometamol	<0.00075006	<0.0001	-	-	-	-
Protein Broad Range Gel						
water	17.5	2.3	-	92.258	12.3	-
trometamol	<0.00075006	<0.0001	-	-	-	-
P240 Broad Range Ladder						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
10x Protein Labeling Buffer						
water	17.5	2.3	-	92.258	12.3	-
sodium dodecyl sulphate	≤0.0013501	≤0.00018	-	-	-	-

# **Evaporation rate**

: Protein Fluorescent Dye Not available.

Dye Resuspension DMF 0.2 (butyl acetate = 1)

Capilary Storage Solution Not available. Protein Conditioning Not available.

Solution

2x Protein Inlet Buffer Not available. Protein Broad Range Gel Not available. P240 Broad Range Not available.

Ladder

10x Protein Labeling Not available.

Buffer

fer

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version : 2.1 26/41

# SECTION 9: Physical and chemical properties

Relative density	: Frotein Fluorescent Dye	Not available
-	Dye Resuspension DMF	0.95

Capilary Storage Solution **Protein Conditioning** 

Solution

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Ladder

10x Protein Labeling

Buffer

le.

Not available. Not available.

Not available. Not available. Not available.

Not available.

Not applicable.

2.5 [Air = 1]

Not available.

Not available.

Not available.

Not available.

Vapour density

: Protein Fluorescent Dve Dye Resuspension DMF Capilary Storage Solution Protein Conditioning Solution

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range Ladder

10x Protein Labeling Buffer

Not available.

Not available.

**Explosive properties** 

: Protein Fluorescent Dye Not available. Dye Resuspension DMF Not available. Capilary Storage Solution Not available. Protein Conditionina Not available. Solution

2x Protein Inlet Buffer Not available. Protein Broad Range Gel P240 Broad Range Ladder

Not available. Not available.

10x Protein Labeling Buffer

Not available.

**Oxidising properties** 

Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution Not available. Protein Conditioning Solution

Not available. Not available. Not available.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Ladder

Not available. Not available. Not available.

10x Protein Labeling Buffer

Not available.

**Particle characteristics** Median particle size

: Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution **Protein Conditioning** Solution

Not available. Not applicable. Not applicable. Not applicable.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Not applicable. Not applicable. Not applicable.

Ladder 10x Protein Labeling

Not applicable.

Buffer

#### 9.2 Other information

No additional information.

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version: 2.1 27/41

# SECTION 10: Stability and reactivity

10.1 Reactivity

: Protein Fluorescent Dye No specific test data related to reactivity available for this

product or its ingredients.

Dye Resuspension DMF No specific test data related to reactivity available for this

product or its ingredients.

Capilary Storage Solution No specific test data related to reactivity available for this

product or its ingredients.

No specific test data related to reactivity available for this **Protein Conditioning** 

Solution

product or its ingredients. No specific test data related to reactivity available for this

2x Protein Inlet Buffer

product or its ingredients.

No specific test data related to reactivity available for this Protein Broad Range Gel

product or its ingredients.

P240 Broad Range

Ladder

Buffer

No specific test data related to reactivity available for this

product or its ingredients.

10x Protein Labeling No specific test data related to reactivity available for this

product or its ingredients.

10.2 Chemical stability

: Protein Fluorescent Dye Dve Resuspension DMF

Capilary Storage Solution Protein Conditioning

Solution 2x Protein Inlet Buffer

Protein Broad Range Gel P240 Broad Range

Ladder

10x Protein Labeling

Buffer

The product is stable.

The product is stable. The product is stable.

The product is stable.

The product is stable. The product is stable. The product is stable.

The product is stable.

10.3 Possibility of hazardous reactions : Protein Fluorescent Dye

Under normal conditions of storage and use, hazardous

reactions will not occur.

Dye Resuspension DMF

Under normal conditions of storage and use, hazardous

reactions will not occur.

Capilary Storage Solution Under normal conditions of storage and use, hazardous

reactions will not occur.

Protein Conditioning

Solution

Under normal conditions of storage and use, hazardous

reactions will not occur.

2x Protein Inlet Buffer

Under normal conditions of storage and use, hazardous

reactions will not occur.

Protein Broad Range Gel

Under normal conditions of storage and use, hazardous

reactions will not occur.

P240 Broad Range

Ladder

Under normal conditions of storage and use, hazardous

reactions will not occur.

10x Protein Labeling Buffer

Under normal conditions of storage and use, hazardous

reactions will not occur.

10.4 Conditions to avoid

: Protein Fluorescent Dye

Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take

precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during

transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.

Dye Resuspension DMF

Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour

to accumulate in low or confined areas.

Capilary Storage Solution No specific data.

**Protein Conditioning** 

Solution

No specific data.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

No specific data. No specific data. No specific data.

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 28/41 Version: 2.1

# SECTION 10: Stability and reactivity

Ladder

10x Protein Labeling

Buffer

No specific data.

10.5 Incompatible materials

: Protein Fluorescent Dye

Reactive or incompatible with the following materials:

oxidising materials

Dye Resuspension DMF

Reactive or incompatible with the following materials:

oxidising materials

Protein Conditioning

Capilary Storage Solution May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

Solution 2x Protein Inlet Buffer

Protein Broad Range Gel P240 Broad Range

May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

Ladder 10x Protein Labeling

May react or be incompatible with oxidising materials.

Buffer

10.6 Hazardous decomposition products : Protein Fluorescent Dye

Dye Resuspension DMF

Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

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

Under normal conditions of storage and use, hazardous Capilary Storage Solution

decomposition products should not be produced.

**Protein Conditioning** 

10x Protein Labeling

Solution

Buffer

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

2x Protein Inlet Buffer Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

Protein Broad Range Gel Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

P240 Broad Range Under normal conditions of storage and use, hazardous decomposition products should not be produced. Ladder

Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Dye Resuspension DMF				
N,N-Dimethylformamide	LC50 Inhalation Vapour	Rat	3421 ppm	1 hours
	LC50 Inhalation Vapour	Rat	1948 ppm	4 hours
	LD50 Oral	Rat	4000 mg/kg	-
Capilary Storage Solution				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
2-methylisothiazol-3(2H)-one	LC50 Inhalation Dusts and mists	Rat - Male,	0.11 mg/l	4 hours
		Female		
	LD50 Dermal	Rat - Male,	242 mg/kg	-
		Female		
	LD50 Oral	Rat - Male,	285.5 mg/kg	-
		Female		
2x Protein Inlet Buffer				
Trometamol	LD50 Dermal	Rat	>5000 mg/kg	_
Protein Broad Range Gel				
Trometamol	LD50 Dermal	Rat	>5000 mg/kg	-
P240 Broad Range Ladder				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version: 2.1 29/41

# **SECTION 11: Toxicological information**

10x Protein Labeling Buffer				
Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-

## **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Dye Resuspension DMF					
N,N-Dimethylformamide	4000	1500	N/A	11	N/A
Capilary Storage Solution					
Glycerol	12600	N/A	N/A	N/A	N/A
2-methylisothiazol-3(2H)-one	285.5	242	N/A	N/A	0.11
P240 Broad Range Ladder Glycerol	12600	N/A	N/A	N/A	N/A
10x Protein Labeling Buffer					
10x Protein Labeling Buffer	31813.6	N/A	N/A	N/A	37.0
Sodium dodecyl sulphate	1288	N/A	N/A	N/A	1.5

# **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Dye Resuspension DMF N,N-Dimethylformamide	Eyes - Severe irritant	Rabbit	-	100 %	-
Capilary Storage Solution Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Rabbit	-	mg 24 hours 500 mg	-
2x Protein Inlet Buffer Trometamol	Skin - Moderate irritant	Rabbit	-	25 %	-
Protein Broad Range Gel	Skin - Severe irritant	Rabbit	-	500 mg	-
Trometamol	Skin - Moderate irritant Skin - Severe irritant	Rabbit Rabbit	-	25 % 500 mg	- -
P240 Broad Range Ladder Glycerol	Eyes - Mild irritant	Rabbit	_	24 hours 500	-
	Skin - Mild irritant	Rabbit	-	mg 24 hours 500 mg	-
10x Protein Labeling Buffer					
Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	-	250 ug	-
	Eyes - Moderate irritant Eyes - Moderate irritant	Rabbit Rabbit	-	10 mg 24 hours 100 mg	-
	Skin - Mild irritant	Guinea pig	-	24 hours 25	-
	Skin - Mild irritant	Rabbit	-	mg 24 hours 50	-
	Skin - Moderate irritant	Mouse	-	mg 24 hours 25	-
	Skin - Moderate irritant	Rabbit	-	mg 24 hours 25 mg	-

## **Sensitiser**

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version : 2.1 30/41

# **SECTION 11: Toxicological information**

Conclusion/Summary

: Not available.

**Mutagenicity** 

**Conclusion/Summary** 

Not available.

Carcinogenicity

**Conclusion/Summary** 

: Not available.

**Reproductive toxicity** 

Conclusion/Summary

Not available.

**Teratogenicity** 

**Conclusion/Summary** 

: Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
10x Protein Labeling Buffer Sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on likely routes of exposure

: Protein Fluorescent Dye

Dye Resuspension DMF Capilary Storage Solution

Protein Conditioning

Solution

2x Protein Inlet Buffer Protein Broad Range Gel

P240 Broad Range Ladder

10x Protein Labeling

Buffer

Not available.

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Not available.

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

#### Potential acute health effects

Inhalation

: Protein Fluorescent Dye

Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the

nose, throat and lungs.

Dye Resuspension DMF

**Protein Conditioning** 

Solution

Harmful if inhaled.

Capilary Storage Solution No known significant effects or critical hazards. No known significant effects or critical hazards.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range Ladder

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

10x Protein Labeling Buffer

No known significant effects or critical hazards.

Ingestion

Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution

Protein Conditionina Solution

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Ladder 10x Protein Labeling

Buffer

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version : 2.1

# **SECTION 11: Toxicological information**

**Eye contact** 

Skin contact : Protein Fluorescent Dye No known significant effects or critical hazards.

Dye Resuspension DMF Harmful in contact with skin.

Capilary Storage Solution May cause an allergic skin reaction.

Protein Conditioning

No known significant effects or critical hazards.

Solution

2x Protein Inlet Buffer No known significant effects or critical hazards. Protein Broad Range Gel No known significant effects or critical hazards. P240 Broad Range No known significant effects or critical hazards.

Ladder

10x Protein Labeling No known significant effects or critical hazards.

Buffer

: Protein Fluorescent Dye Exposure to airborne concentrations above statutory or

recommended exposure limits may cause irritation of the

eyes.

Dye Resuspension DMF Causes serious eye irritation.

Capilary Storage Solution No known significant effects or critical hazards. Protein Conditioning No known significant effects or critical hazards.

Solution

2x Protein Inlet Buffer

No known significant effects or critical hazards.

Protein Broad Range Gel No known significant effects or critical hazards. P240 Broad Range No known significant effects or critical hazards. Ladder

10x Protein Labeling No known significant effects or critical hazards.

Buffer

## Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : Protein Fluorescent Dye Adverse symptoms may include the following:

respiratory tract irritation

coughing

Dye Resuspension DMF Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Capilary Storage Solution No specific data.

Protein Conditioning No specific data.

Solution

2x Protein Inlet Buffer No specific data.

Protein Broad Range Gel No specific data.

P240 Broad Range No specific data. Ladder

10x Protein Labeling No specific data. Buffer

Ingestion : Protein Fluorescent Dye No specific data.

Dye Resuspension DMF Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Capilary Storage Solution No specific data.

Protein Conditioning No specific data. Solution

2x Protein Inlet Buffer No specific data.
Protein Broad Range Gel No specific data.
P240 Broad Range No specific data.

Ladder

10x Protein Labeling

No specific data.

Buffer

Skin contact: Protein Fluorescent Dye No specific data.

Dye Resuspension DMF Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Capilary Storage Solution Adverse symptoms may include the following:

irritation redness

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version : 2.1 32/41

# **SECTION 11: Toxicological information**

Protein Conditioning

Solution

No specific data.

2x Protein Inlet Buffer No specific data. Protein Broad Range Gel No specific data. No specific data. P240 Broad Range

Ladder

10x Protein Labeling

Buffer

No specific data.

: Protein Fluorescent Dye **Eve contact** 

Adverse symptoms may include the following:

irritation redness

Dye Resuspension DMF

Adverse symptoms may include the following:

pain or irritation watering redness

Protein Conditioning

Solution

Capilary Storage Solution No specific data. No specific data.

2x Protein Inlet Buffer No specific data. Protein Broad Range Gel No specific data. P240 Broad Range Ladder

No specific data.

10x Protein Labeling

Buffer

No specific data.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

### Short term exposure

**Potential immediate** 

effects

Not available.

Potential delayed

effects

Not available.

Long term exposure

Potential immediate

effects

Not available.

Potential delayed

effects

: Not available.

#### Potential chronic health effects

**Conclusion/Summary** 

: Not available.

**General** 

: Protein Fluorescent Dye

Repeated or prolonged inhalation of dust may lead to chronic

respiratory irritation.

Dye Resuspension DMF

No known significant effects or critical hazards.

Capilary Storage Solution Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

Protein Conditioning

Solution

No known significant effects or critical hazards.

2x Protein Inlet Buffer Protein Broad Range Gel

P240 Broad Range

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Ladder

10x Protein Labeling

No known significant effects or critical hazards.

Buffer

Carcinogenicity

: Protein Fluorescent Dye Dye Resuspension DMF

No known significant effects or critical hazards. No known significant effects or critical hazards. Capilary Storage Solution No known significant effects or critical hazards. No known significant effects or critical hazards.

Protein Conditioning Solution

2x Protein Inlet Buffer

Protein Broad Range Gel P240 Broad Range

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Ladder

No known significant effects or critical hazards. 10x Protein Labeling

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version: 2.1 33/41

# **SECTION 11: Toxicological information**

: Protein Fluorescent Dye Mutagenicity No known significant effects or critical hazards. Dye Resuspension DMF No known significant effects or critical hazards. Capilary Storage Solution No known significant effects or critical hazards. **Protein Conditioning** No known significant effects or critical hazards. Solution 2x Protein Inlet Buffer No known significant effects or critical hazards. Protein Broad Range Gel No known significant effects or critical hazards.

P240 Broad Range No known significant effects or critical hazards. Ladder

10x Protein Labeling No known significant effects or critical hazards. Buffer

Reproductive toxicity Protein Fluorescent Dye

Dye Resuspension DMF Capilary Storage Solution Protein Conditioning Solution

No known significant effects or critical hazards. May damage the unborn child.

No known significant effects or critical hazards. No known significant effects or critical hazards.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range Ladder

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

10x Protein Labeling Buffer

No known significant effects or critical hazards.

Dye Resuspension DMF

Adverse symptoms include the following: central nervous

system depression, liver abnormalities.

Capilary Storage Solution Adverse symptoms may include the following: May cause

skin sensitisation.

# **SECTION 12: Ecological information**

## 12.1 Toxicity

Other information

Product/ingredient name	Result	Species	Exposure
Dye Resuspension DMF			
N,N-Dimethylformamide	Acute EC50 14.4 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i> magna	48 hours
	Acute EC50 7100000 µg/l Fresh water	Fish - Bluegill - Lepomis macrochirus	96 hours
	Acute LC50 >100000 μg/l Marine water	Crustaceans - Common shrimp, sand shrimp - <i>Crangon crangon</i> - Adult	48 hours
	Chronic NOEC 1500 mg/l Fresh water	Daphnia - Water flea - Daphnia magna	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> - Embryo	30 days
Capilary Storage Solution			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - Oncorhynchus mykiss	96 hours
2-methylisothiazol-3(2H)-one	Acute EC50 0.18 ppm Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Acute LC50 0.07 ppm Fresh water	Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i>	96 hours
	Chronic NOEC 0.044 mg/l Fresh water Chronic NOEC 4.93 mg/l Fresh water	Daphnia Fish	21 days 98 days
2x Protein Inlet Buffer			
Trometamol	Acute EC50 >980 mg/l Fresh water	Daphnia	48 hours
	Acute NOEC 520 mg/l Fresh water	Daphnia	48 hours
Protein Broad Range Gel			
Trometamol	Acute EC50 >980 mg/l Fresh water	Daphnia	48 hours

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version: 2.1 34/41

# **SECTION 12: Ecological information**

	Acute NOEC 520 mg/l Fresh water	Daphnia	48 hours
P240 Broad Range Ladder Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - Oncorhynchus mykiss	96 hours
10x Protein Labeling Buffer			
Sodium dodecyl sulphate	Acute EC50 1200 μg/l Marine water	Algae - Diatom - Skeletonema costatum	96 hours
	Acute LC50 900 µg/l Marine water	Crustaceans - Brine shrimp - Artemia salina - Adult	48 hours
	Acute LC50 1400 μg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i> pulex - Neonate	48 hours
	Acute LC50 590 μg/l Fresh water	Fish - Carp, hawk fish - Cirrhinus mrigala - Larvae	96 hours
	Chronic NOEC 1.25 mg/l Marine water	Algae - Sea Lettuce - <i>Ulva</i> fasciata - Zoea	96 hours
	Chronic NOEC 1 mg/l Fresh water	Crustaceans - Water flea - Pseudosida ramosa - Neonate	21 days
	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 0.8 mg/l Fresh water	Fish - Eastern mosquitofish - Gambusia holbrooki	28 days

**Conclusion/Summary**: Not available.

# 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Capilary Storage Solution Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
2-methylisothiazol-3(2H)-one	301D Ready Biodegradability - Closed Bottle Test	0 % - Not readily - 28 days	-	-
2x Protein Inlet Buffer Trometamol	OECD 301F Ready Biodegradability - Manometric Respirometry Test	97.1 % - Readily - 28 days	30 mg/l	-
Protein Broad Range Gel Trometamol	OECD 301F Ready Biodegradability - Manometric Respirometry Test	97.1 % - Readily - 28 days	30 mg/l	-
P240 Broad Range Ladder Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
10x Protein Labeling				
)ato of issue/Date of revision	: 11/01/2024 Date (	of provious issue : 20/11/2023	Vorsi	n :21 <b>3E/AA</b>

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version : 2.1 35/41

ProteoAnalyzer Verification Kit, Part Number 5191-6642

# **SECTION 12: Ecological information**

Buffer				
Sodium dodecyl sulphate	OECD 301B	95 % - Readily - 28 days	20 mg/l	-
	Ready			
	Biodegradability -			
	CO2 Evolution			
	Test			

**Conclusion/Summary**: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Capilary Storage Solution 2-methylisothiazol-3(2H)-one	-	-	Not readily
2x Protein Inlet Buffer Trometamol	-	-	Readily
Protein Broad Range Gel Trometamol	-	-	Readily
10x Protein Labeling Buffer Sodium dodecyl sulphate	-	-	Readily

## 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Dye Resuspension DMF N,N-Dimethylformamide	-1.01	0.79	Low
Capilary Storage Solution Glycerol 2-methylisothiazol-3(2H)-one	-1.76 0.119	-	Low Low
2x Protein Inlet Buffer Trometamol	-2.31	-	Low
Protein Broad Range Gel Trometamol	-2.31	-	Low
P240 Broad Range Ladder Glycerol	-1.76	-	Low
10x Protein Labeling Buffer			
Sodium dodecyl sulphate	-2.03	-	Low

# 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

#### 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
Protein Fluorescent Dye Proprietary	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Dye Resuspension DMF</b> N,N-Dimethylformamide	No	N/A	No	Yes	No	N/A	No

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version : 2.1 36/41

ProteoAnalyzer Verification Kit, Part Number 5191-6642

# **SECTION 12: Ecological information**

12.6 Other adverse effects: No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** 

**Packaging** 

**Methods of disposal** 

- : The classification of the product may meet the criteria for a hazardous waste.
- : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** 

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number	UN3316	UN3316	UN3316
14.2 UN proper shipping name	CHEMICAL KIT	CHEMICAL KIT	Chemical kit
14.3 Transport hazard class(es)	9	9	9
14.4 Packing group	III	III	III
14.5 Environmental hazards	No.	No.	No.

## **Additional information**

ADR/RID

: Hazard identification number 90 Limited quantity See SP 251 Special provisions 251, 340, 671

Tunnel code (E)

**IMDG** 

: <u>Emergency schedules</u> F-A, \_S-P\_ <u>Special provisions</u> 251, 340

**IATA** 

: **Quantity limitation** Passenger and Cargo Aircraft: 10 kg. Packaging instructions: 960. Cargo Aircraft Only: 10 kg. Packaging instructions: 960. Limited Quantities - Passenger Aircraft: 1 kg. Packaging instructions: Y960.

Special provisions A44, A163

14.6 Special precautions for user

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version : 2.1 37/41

ProteoAnalyzer Verification Kit, Part Number 5191-6642

# **SECTION 14: Transport information**

14.7 Transport in bulk according to IMO

: Not available.

# **SECTION 15: Regulatory information**

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

## **UK (GB)/REACH**

instruments

## Annex XIV - List of substances subject to authorisation

## **Annex XIV**

None of the components are listed.

## **Substances of very high concern**

Intrinsic property	Ingredient name			Date of revision
Dye Resuspension DMF Toxic to reproduction	N,N-dimethylformamide	Candidate	-	12/19/2012

#### Ozone depleting substances

Not listed.

### **Prior Informed Consent (PIC)**

Not listed.

## **Persistent Organic Pollutants**

Not listed.

# Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product / Ingredient name	Identifiers	Status
Tye Resuspension DMF N,N-Dimethylformamide		3 30 72
Capilary Storage Solution Capilary Storage Solution		3

Label

: Protein Fluorescent Dye

Not applicable.

Dye Resuspension DMF

Restricted to professional users.

Capilary Storage Solution Protein Conditioning Solution 2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range Ladder

Not applicable. Not applicable. Not applicable.

Not applicable.

10x Protein Labeling Buffer

Not applicable. Not applicable.

#### **Seveso Directive**

This product is not controlled under the Seveso Directive.

#### **Danger criteria**

## **Category**

# Dye Resuspension DMF

P5c

#### **EU regulations**

Industrial emissions (integrated pollution

: Not listed

prevention and control) - Air

Date of issue/Date of revision

: 11/01/2024

Date of previous issue

: 29/11/2023

Version : 2.1

38/41

ProteoAnalyzer Verification Kit, Part Number 5191-6642

# SECTION 15: Regulatory information

**Industrial emissions** : Not listed

(integrated pollution prevention and control) -

Water

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments might still be

required.

## **International regulations**

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

#### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

### **Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

## **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

### **Inventory list**

**United States** : At least one component is not listed.

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and** 

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

#### Procedure used to derive the classification

Classification	Justification	
Dye Resuspension DMF		
Flam. Liq. 3, H226	Expert judgment	
Acute Tox. 4, H312	Expert judgment	
Acute Tox. 4, H332	On basis of test data	
Eye Irrit. 2, H319	Expert judgment	
Repr. 1B, H360D	Expert judgment	
Capilary Storage Solution		
Skin Sens. 1, H317	Calculation method	

Full text of abbreviated H statements

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version: 2.1

# **SECTION 16: Other information**

Dye

Resuspension

**DMF** 

H226 Flammable liquid and vapour. Harmful in contact with skin. H312 H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H360D May damage the unborn child.

Capilary Storage Solution

H301 Toxic if swallowed. H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H400 Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects. H410

Corrosive to the respiratory tract. **EUH071** 

2x Protein **Inlet Buffer** 

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**Protein Broad** Range Gel

H315 Causes skin irritation. H319 Causes serious eye irritation.

10x Protein Labeling **Buffer** 

H228 Flammable solid. Harmful if swallowed. H302 H315 Causes skin irritation.

H318 Causes serious eye damage.

Harmful if inhaled. H332

May cause respiratory irritation. H335

H400 Very toxic to aquatic life.

Harmful to aquatic life with long lasting effects. H412

#### **Full text of classifications**

#### Dye Resuspension

**DMF** 

Acute Tox. 4 **ACUTE TOXICITY - Category 4** 

Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3

Repr. 1B REPRODUCTIVE TOXICITY - Category 1B

**Capilary Storage** 

Solution

Acute Tox. 2 **ACUTE TOXICITY - Category 2** Acute Tox. 3 **ACUTE TOXICITY - Category 3** 

Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

Skin Corr. 1B SKIN CORROSION/IRRITATION - Category 1B

Skin Sens. 1 SKIN SENSITISATION - Category 1 Skin Sens. 1A SKIN SENSITISATION - Category 1A

Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version: 2.1 40/41

ProteoAnalyzer Verification Kit, Part Number 5191-6642

## **SECTION 16: Other information**

2x Protein Inlet

Buffer

Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

Protein Broad Range Gel

Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

10x Protein Labeling Buffer

Acute Tox. 4 ACUTE TOXICITY - Category 4

Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

Flam. Sol. 2 FLAMMABLE SOLIDS - Category 2

Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

Date of issue/ Date of : 11/01/2024

revision

Date of previous issue : 29/11/2023

Version : 2.1

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Date of issue/Date of revision : 11/01/2024 Date of previous issue : 29/11/2023 Version : 2.1 41/41