SAFETY DATA SHEET



ProteoAnalyzer Verification Kit, Part Number 5191-6642

Section 1. Identification

Product identifier : ProteoAnalyzer Verification Kit, Part Number 5191-6642

Part no. (chemical kit) : 5191-6642

Part no. : Protein Verification Kit, RT 5008-0020

Protein Fluorescent Dye 5191-6650 Dye Resuspension DMF 5191-6651 Capilary Storage Solution GP-440-0100 **Protein Conditioning Solution** 5008-0015 2x Protein Inlet Buffer 5008-0017 Protein Broad Range Gel 5008-0016 Protein Verification Kit, -20C 5008-0019 P240 Broad Range Ladder 5191-6648 10x Protein Labeling Buffer 5191-6647

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

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd

679 Springvale Road

Mulgrave

Victoria 3170, Australia

1800 802 402

Emergency telephone number (with hours of

operation)

: CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

Dye Resuspension DMF

H226 FLAMMABLE LIQUIDS - Category 3 H312 ACUTE TOXICITY (dermal) - Category 4

H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

Capilary Storage Solution

H320 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B

H317 SKIN SENSITISATION - Category 1

P240 Broad Range Ladder

H320 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B

10x Protein Labeling Buffer

H318 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

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Section 2. Hazard(s) identification

2x Protein Inlet Buffer

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 4.5% Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 2.2%

Protein Broad Range Gel

GHS label elements

Hazard pictograms

: Dye Resuspension DMF





Capilary Storage Solution



10x Protein Labeling Buffer



Signal word

: Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution Protein Conditioning Solution No signal word. 2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range Ladder 10x Protein Labeling Buffer

No signal word. WARNING WARNING No signal word. No signal word. WARNING DANGER

Hazard statements

Protein Fluorescent Dye Dye Resuspension DMF

No known significant effects or critical hazards.

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

Capilary Storage Solution H317 - May cause an allergic skin reaction.

H320 - Causes eye irritation.

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.

H320 - Causes eye irritation.

H318 - Causes serious eye damage.

Precautionary statements

Prevention

Protein Fluorescent Dye Dye Resuspension DMF Not applicable.

P280 - Wear protective gloves and protective clothing.

Wear eye or face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 - Wear protective gloves. Capilary Storage Solution P261 - Avoid breathing vapour.

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

Not applicable.

P280 - Wear eye or face protection.

Response

Protein Fluorescent Dye Dye Resuspension DMF

10x Protein Labeling Buffer

Not applicable.

P302 + P312 - IF ON SKIN: Call a POISON CENTER

or doctor if you feel unwell.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical

advice or attention.

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Section 2. Hazard(s) identification

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

wash it before reuse.

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 Not applicable.

P240 Broad Range Ladder P305 + P351 + P338 - IF IN EYES: Rinse cautiously

with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical

advice or attention.

10x Protein Labeling Buffer P305 + P351 + P338, P310 - IF IN EYES: Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or

doctor.

Storage : Frotein Fluorescent Dye Not applicable.

Dye Resuspension DMF Not applicable.

Capilary Storage Solution
Protein Conditioning Solution
2x Protein Inlet Buffer
Protein Broad Range Gel
P240 Broad Range Ladder
10x Protein Labeling Buffer
Not applicable.
Not applicable.
Not applicable.
Not applicable.

Disposal : Frotein 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 Solution
2x Protein Inlet Buffer
Protein Broad Range Gel
P240 Broad Range Ladder
10x Protein Labeling Buffer
Not applicable.
Not applicable.
Not applicable.
Not applicable.

Supplemental label elements

Additional warning phrases

Protein Fluorescent Dye
Dye Resuspension DMF
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.
Not applicable.
Not applicable.

10x Protein Labeling Buffer

Other hazards which do not result in classification

Protein Fluorescent Dye
Dye Resuspension DMF
Capilary Storage Solution

May form combustible dust concentrations in air.
None known.
None known.

Not applicable.

2x Protein Inlet Buffer None known.
Protein Broad Range Gel None known.
P240 Broad Range Ladder None known.
10x Protein Labeling Buffer None known.

Protein Conditioning Solution None known.

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Section 3. Composition and ingredient information

Substance/mixture

: Protein Fluorescent Dye Substance Dye Resuspension DMF Substance Capilary Storage Solution Mixture Protein Conditioning Solution Mixture 2x Protein Inlet Buffer Mixture Protein Broad Range Gel Mixture P240 Broad Range Ladder Mixture 10x Protein Labeling Buffer Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
Protein Fluorescent Dye		
Proprietary	100	-
Dye Resuspension DMF		
N,N-Dimethylformamide	100	68-12-2
Capilary Storage Solution		
Glycerol	≥60 - ≤75	56-81-5
2-Methyl-2H-isothiazol-3-one	<0.1	2682-20-4
P240 Broad Range Ladder		
Glycerol	≥10 - ≤30	56-81-5
10x Protein Labeling Buffer		
Sodium dodecyl sulphate	≤5	151-21-3

^{*} Non-hazardous ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

Capilary Storage Solution

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

Section 4. First aid measures

: Protein Fluorescent Dye **Eye contact**

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, Dye Resuspension DMF

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. If irritation persists,

get medical attention.

Protein Conditioning Solution Immediately flush eyes with plenty of water,

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occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

2x Protein Inlet Buffer 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.

Protein Broad Range Gel 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.

P240 Broad Range Ladder 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. If irritation persists,

get medical attention.

10x Protein Labeling Buffer Get medical attention immediately. Call a poison

> center or physician. 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. Chemical burns must be treated promptly by a

physician.

Inhalation : Protein Fluorescent Dye Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

Dye Resuspension DMF 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-to-mouth 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.

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-to-mouth 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. Remove victim to fresh air and keep at rest in a

Capilary Storage Solution

2x Protein Inlet Buffer

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Protein Broad Range Gel

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 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.

P240 Broad Range Ladder 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-to-mouth 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.

10x Protein Labeling Buffer Get medical attention immediately. Call a poison center or physician. 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 selfcontained 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-to-mouth resuscitation. 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 Fluorescent Dye Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Wash with plenty of soap and water. Remove Dye Resuspension DMF 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 adverse health effects persist or are severe. If necessary, call a poison center or physician. Wash clothing before

reuse. Clean shoes thoroughly before reuse. 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 reuse.

Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

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

Skin contact

Capilary Storage Solution

Protein Conditioning Solution

2x Protein Inlet Buffer

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Protein Broad Range Gel

medical attention if symptoms occur.

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

medical attention if symptoms occur.

P240 Broad Range Ladder

10x Protein Labeling Buffer

Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of 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. Chemical burns must be treated promptly by a physician. Wash clothing

before reuse. Clean shoes thoroughly before reuse.

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.

> 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.

Wash out mouth with water. Remove dentures if any. Capilary Storage Solution

> 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.

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. 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

Ingestion

: Protein Fluorescent Dye

Dye Resuspension DMF

2x Protein Inlet Buffer

Protein Broad Range Gel

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P240 Broad Range Ladder

personnel. Get medical attention if symptoms occur. 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.

10x Protein Labeling Buffer

Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. 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.

Most important symptoms/effects, acute and delayed Potential acute health effects

Eye contact

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

10x Protein Labeling Buffer

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

Causes serious eye irritation.

Causes eye irritation.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes eye irritation.

Causes serious eye damage.

Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

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

No known significant effects or critical hazards. Harmful in contact with skin.

May cause an allergic skin reaction.

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

Inhalation

Skin contact

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

Over-exposure signs/symptoms

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

Adverse symptoms may include the following:

irritation watering redness

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

No specific data. No specific data.

Adverse symptoms may include the following:

irritation watering redness

10x Protein Labeling Buffer

Adverse symptoms may include the following:

watering redness

Inhalation

Protein Fluorescent Dye

Adverse symptoms may include the following:

respiratory tract irritation

coughing

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

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

No specific data.

No specific data.

Skin contact

: Protein Fluorescent Dye No specific data. Dye Resuspension DMF No specific data.

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 Ladder No specific data.

10x Protein Labeling Buffer Adverse symptoms may include the following:

pain or irritation redness

blistering may occur

Ingestion

: Protein Fluorescent Dye No specific data. Dye Resuspension DMF No specific data. 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 Ladder No specific data.

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10x Protein Labeling Buffer

Adverse symptoms may include the following:

stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

: Protein Fluorescent Dye Notes to physician 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.

In case of inhalation of decomposition products in a Capilary Storage Solution

> fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

In case of inhalation of decomposition products in a **Protein Conditioning Solution**

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 Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

In case of inhalation of decomposition products in a 10x Protein Labeling Buffer

fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

Specific treatments

: Protein Fluorescent Dye No specific treatment. Dye Resuspension DMF No specific treatment. Capilary Storage Solution **Protein Conditioning Solution** 2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range Ladder

No specific treatment. No specific treatment.

Protection of first-aiders

10x Protein Labeling Buffer : 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. 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 Solution No action shall be taken involving any personal risk

or without suitable training.

2x Protein Inlet Buffer No action shall be taken involving any personal risk

or without suitable training.

No action shall be taken involving any personal risk Protein Broad Range Gel

or without suitable training.

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P240 Broad Range Ladder 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.

10x Protein Labeling Buffer 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 self-contained 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.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media

: Protein Fluorescent Dye Use dry chemical powder. Dye Resuspension DMF Use dry chemical, CO₂, water spray (fog) or foam.

Capilary Storage Solution Use an extinguishing agent suitable for the

surrounding fire.

Protein Conditioning Solution Use an extinguishing agent suitable for the

surrounding fire.

2x Protein Inlet Buffer Use an extinguishing agent suitable for the

surrounding fire.

Protein Broad Range Gel Use an extinguishing agent suitable for the

surrounding fire.

P240 Broad Range Ladder Use an extinguishing agent suitable for the

surrounding fire.

Use an extinguishing agent suitable for the 10x Protein Labeling Buffer

surrounding fire.

Unsuitable extinguishing media

: Protein Fluorescent Dye

Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.

Do not use water jet. None known.

Dye Resuspension DMF Capilary Storage Solution Protein Conditioning Solution None known. 2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range Ladder 10x Protein Labeling Buffer

None known. None known. None known. None known.

Specific hazards arising from the chemical

: 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

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Hazardous thermal decomposition products

and the container may burst.

Protein Fluorescent Dye No specific data.

Dye Resuspension DMF 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 Solution Decomposition products may include the following

materials: 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

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 taken involving any personal risk or

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Section 5. Firefighting measures

without suitable training.

Protein Broad Range Gel 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.

P240 Broad Range Ladder 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.

10x Protein Labeling Buffer 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 fire-fighters

: 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.

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.

Protein Conditioning Solution 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.

Hazchem code

Protein Fluorescent Dye Dye Resuspension DMF

Not available. .2Y

Capilary Storage Solution
Protein Conditioning Solution
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 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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Section 6. Accidental release measures

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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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Section 6. Accidental release measures

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

spillage, take note of any information in Section 8 o 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".

spillage, take note of any information in Section 8 on

2x Protein Inlet 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".

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".

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".

Environmental precautions : Protein Fluorescent Dye Avoid dispersal of spilt material and runoff and

P240 Broad Range Ladder

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).

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).

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Section 6. Accidental release measures

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).

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).

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.

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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 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). Do not ingest. Avoid contact with eyes, skin and clothing. 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 explosionproof 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. 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

Capilary Storage Solution

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 appropria

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

compatible material, kept tightly closed when not in use. Empty containers retain product residue and

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). Do not ingest. Avoid contact with eyes, skin and clothing. 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.

10x Protein Labeling Buffer

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in

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Advice on general occupational hygiene : Protein Fluorescent Dye

use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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. 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.

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

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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.

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

Dye Resuspension DMF

Protein Conditioning Solution

2x Protein Inlet Buffer

Protein Broad Range Gel

P240 Broad Range Ladder

10x Protein Labeling Buffer

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Conditions for safe storage, : Protein Fluorescent Dye including any incompatibilities

Dye Resuspension DMF

Capilary Storage Solution

Protein Conditioning Solution

2x Protein Inlet Buffer

Protein Broad Range Gel

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

dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and

Store in accordance with local regulations. Store in original container protected from direct sunlight in a

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.

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P240 Broad Range Ladder

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. 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

environmental contamination. See Section 10 for incompatible materials before handling or use.

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. Store locked up. 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

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Dye Resuspension DMF	
N,N-Dimethylformamide	Safe Work Australia (Australia, 10/2022). Absorbed through skin. TWA: 30 mg/m³ 8 hours. TWA: 10 ppm 8 hours.
Capilary Storage Solution	
Glycerol	Safe Work Australia (Australia, 10/2022). TWA: 10 mg/m³ 8 hours.
2-Methyl-2H-isothiazol-3-one	DFG MAC-values list (Germany, 7/2022). Skin sensitiser.
P240 Broad Range Ladder	
Glycerol	Safe Work Australia (Australia, 10/2022). TWA: 10 mg/m³ 8 hours.

Biological exposure indices

No exposure indices known.

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.

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Section 8. Exposure controls and personal protection

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.

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.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state : Protein Fluorescent Dye Solid. [Lyophilized Powder.]

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
Liquid.
Liquid.
Liquid.

Colour

: Protein Fluorescent Dye Yellow./ Brown.

Dye Resuspension DMF Colourless to light yellow.

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.
Not available.
Not available.

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characteristics			•					
Odour	:	Protein Fluorescent D Dye Resuspension D Capilary Storage Soli Protein Conditioning 2x Protein Inlet Buffe Protein Broad Range P240 Broad Range L 10x Protein Labeling	MF ution Solution r Gel adder	Not avail Faint odd Not avail Not avail Not avail Not avail Not avail	our. [Slight] able. able. able. able. able.			
Odour threshold	:	Protein Fluorescent D Dye Resuspension D Capilary Storage Solo Protein Conditioning 2x Protein Inlet Buffe Protein Broad Range P240 Broad Range L 10x Protein Labeling	MF ution Solution r Gel adder	Not avail Not avail Not avail Not avail Not avail Not avail Not avail	able. able. able. able. able. able.			
pH	:	Protein Fluorescent I Dye Resuspension D Capilary Storage Solo Protein Conditioning 2x Protein Inlet Buffe Protein Broad Range P240 Broad Range L 10x Protein Labeling	MF ution Solution r Gel adder	Not avail 6.7 8.3 9.68 to 9 8.18 to 8 8 to 8.5 8.4 to 8.6 8.87	.94 .31			
Melting point/freezing point	:	Protein Fluorescent I Dye Resuspension D Capilary Storage Soli Protein Conditioning 2x Protein Inlet Buffe Protein Broad Range P240 Broad Range L 10x Protein Labeling	Not avail -61°C (-7 Not avail Not avail Not avail Not avail Not avail	77.8°F) able. able. able. able. able.				
Boiling point, initial boiling point, and boiling range	:	Protein Fluorescent D Dye Resuspension D Capilary Storage Soli Protein Conditioning 2x Protein Inlet Buffe Protein Broad Range P240 Broad Range L 10x Protein Labeling	Dye MF ution Solution r Gel adder	Not avail 153°C (3 Not avail Not avail Not avail Not avail Not avail	07.4°F) able. able. able. able. able.			
Flash point	:	Protein Fluorescent D Dye Resuspension D Capilary Storage Solo Protein Conditioning 2x Protein Inlet Buffe Protein Broad Range P240 Broad Range L 10x Protein Labeling	Dye MF ution Solution r Gel adder	Not avail Not avail Not avail Not avail Not avail Not avail	up: 57.5°C (1 able. able. able. able. able. able.	35.5°F) [I		
		In any all and a sure	00	Closed		00	Open	
		Ingredient name	°C	°F	Method	°C	°F	Meth

	Closed cup			Open cup			
Ingredient name	°C	°F	Method	°C	°F	Method	
Capilary Storage Solution							
Glycerol	-	-	-	177	350.6	-	
P240 Broad Range Ladder							

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2x Protein Inlet Buffer

: Protein Fluorescent Dye

Protein Broad Range Gel P240 Broad Range Ladder

10x Protein Labeling Buffer

	Glycerol	-	-	-	177	350.6	-	
	10x Protein Labeling Buffer							
	Sodium dodecyl sulphate	170	338	-	-	-	-	
Evaporation rate	Dye Resuspension Capilary Storage So	: Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution Protein Conditioning Solution		ailable. tyl acetato ailable. ailable.	e = 1)			

Not available. Not available.

Not available.

Not available.

Not available.

Flammability

Lower and upper explosion limit/flammability limit

Vapour pressure

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 applicable.

Protein Fluorescent Dye
Dye Resuspension DMF

Capilary Storage Solution
Protein Conditioning Solution
2x Protein Inlet Buffer

Not applicable.
Lower: 2.2%
Upper: 15.2%
Not available.
Not available.
Not available.

Protein Broad Range Gel Not available. P240 Broad Range Ladder Not available. 10x Protein Labeling Buffer Not available.

• Dve Resuspension DMF 0.49 kPa (3.7 mm Hg)

	Vapou	r Pressu	re at 20°C	Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
☑apilary 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	-	
Protein Broad							

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Characteristics							
	Range Gel						
	water	17.5	2.3	-	92.258	12.3	-
	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	-	-	-	-
	Protein Fluorescent D Dye Resuspension D Capilary Storage Solu Protein Conditioning 2x Protein Inlet Buffe Protein Broad Range P240 Broad Range L 10x Protein Labeling	MF ution Solution r Gel adder Buffer	Not appli 2.5 [Air = Not avail Not avail Not avail Not avail Not avail	: 1] able. able. able. able. able.			
	Protein Fluorescent Dye Resuspension D Capilary Storage Solu Protein Conditioning 2x Protein Inlet Buffe Protein Broad Range P240 Broad Range L 10x Protein Labeling	MF ution Solution r Gel adder	Not avail 0.95 Not avail Not avail Not avail Not avail Not avail	able. able. able. able. able.			
Solubility(ies) :	Media			Result			
	Protein Fluorescent water Dye Resuspension	•		Soluble			
	water			Soluble			
	Capilary Storage So water			Soluble			
	Protein Conditionin water 2x Protein Inlet Buff		on	Soluble			
	water			Soluble			
	Protein Broad Rang water			Soluble			
	P240 Broad Range I water			Soluble			
	10x Protein Labeling water	g Buffer		Soluble			
octanol/water	Protein Fluorescent D Dye Resuspension D Capilary Storage Solu Protein Conditioning 2x Protein Inlet Buffe Protein Broad Range P240 Broad Range L	MF ution Solution r Gel	Not appli -1.01 Not appli Not appli Not appli Not appli Not appli	cable. cable. cable. cable.			

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Auto-ignition temperature

10x Protein Labeling Buffer Not applicable.

Protein Fluorescent Dye
Dve Resuspension DMF

Not applicable.
445°C (833°F)

Dye Nesuspension Divii	140 C (000 I)		
Ingredient name	°C	°F	Method
Capilary Storage Solution			
Glycerol	370	698	-
P240 Broad Range Ladder			
Glycerol	370	698	-
10x Protein Labeling Buffer			
Sodium dodecyl sulphate	310.5	590.9	VDI 2263

Decomposition temperature

Protein Fluorescent Dye Not available. Dye Resuspension DMF >350°C (>662°F) Capilary Storage Solution Not available. Protein Conditioning Solution Not available. 2x Protein Inlet Buffer Not available. Protein Broad Range Gel Not available. P240 Broad Range Ladder Not available. 10x Protein Labeling Buffer Not available. : Protein Fluorescent Dye

Viscosity

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 applicable.
Dynamic: 0.802 mPa·s (0.802 cP)
Not available.
Not available.
Not available.
Not available.
Not available.
Not available.

Particle characteristics Median particle size

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 applicable.
 Not applica

Section 10. Stability and reactivity

Reactivity

: Frotein Fluorescent Dye No specific test data related to reactivity available for this product or its ingredients.

this product or its ingredients.

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

this product or its ingredients.

Protein Conditioning Solution No specific test data related to reactivity available for

this product or its ingredients.

2x Protein Inlet Buffer No specific test data related to reactivity available for

this product or its ingredients.

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

this product or its ingredients.

P240 Broad Range Ladder No specific test data related to reactivity available for

this product or its ingredients.

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

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Section 10. Stability and reactivity

this product or its ingredients.

Chemical stability

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

The product is stable. The product is stable.

Possibility of hazardous reactions

: Protein Fluorescent Dye

Capilary Storage Solution

Under normal conditions of storage and use,

hazardous reactions will not occur.

Under normal conditions of storage and use, Dye Resuspension DMF hazardous reactions will not occur.

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.

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

hazardous reactions will not occur.

P240 Broad Range Ladder Under normal conditions of storage and use,

hazardous reactions will not occur.

Under normal conditions of storage and use, 10x Protein Labeling Buffer

hazardous reactions will not occur.

Conditions to avoid

Protein Fluorescent Dye

Dye Resuspension DMF

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.

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 Protein Conditioning Solution No specific data. 2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range Ladder 10x Protein Labeling Buffer

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

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

Capilary Storage Solution **Protein Conditioning Solution** 2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range Ladder 10x Protein Labeling Buffer

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

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Section 10. Stability and reactivity

Hazardous decomposition products	: Protein Fluorescent Dye	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Dye Resuspension DMF	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Capilary Storage Solution	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Protein Conditioning Solution	
	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 Ladder	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	10x Protein Labeling Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Dye Resuspension DMF N,N-Dimethylformamide	LC50 Inhalation Vapour LC50 Inhalation Vapour LD50 Oral	Rat Rat Rat	3421 ppm 1948 ppm 4000 mg/kg	1 hours 4 hours
Capilary Storage Solution				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
2-Methyl-2H-isothiazol-3-one	LC50 Inhalation Dusts and mists	Rat - Male, Female	0.11 mg/l	4 hours
	LD50 Dermal	Rat - Male, Female	242 mg/kg	-
	LD50 Oral	Rat - Male, Female	285.5 mg/kg	-
P240 Broad Range Ladder	L DEO O	D-4	40000 //	
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
10x Protein Labeling Buffer				
Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-

produced.

Irritation/Corrosion

Result	Species	Score	Exposure	Observation
Eyes - Severe irritant	Rabbit	-	100 %	-
From Mild invitant	D-b-i4		04 5 500	
Eyes - Milia irritant	Rabbit	-		-
Skin - Mild irritant	Rabbit	-	24 hours 500	-
	Eyes - Severe irritant Eyes - Mild irritant	Eyes - Severe irritant Rabbit Eyes - Mild irritant Rabbit	Eyes - Severe irritant Rabbit - Eyes - Mild irritant Rabbit -	Eyes - Severe irritant Rabbit - 100 % Eyes - Mild irritant Rabbit - 24 hours 500 mg

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P240 Broad Range Ladder					
Glycerol	Eyes - Mild irritant	Rabbit	_	24 hours 500	_
1				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
10x Protein Labeling					
Buffer					
Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	-	250 ug	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Skin - Mild irritant	Guinea pig	-	24 hours 25	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 50	-
				mg	
	Skin - Moderate irritant	Mouse	-	24 hours 25	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 25	-
				mg	

Sensitisation

Not available.

Mutagenicity

Conclusion/Summary

Carcinogenicity

Conclusion/Summary

Reproductive toxicity

Conclusion/Summary

Teratogenicity

: Not available.

: Not available.

: Not available.

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Name	3 3 3	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 Not available.

Dye Resuspension DMF Routes of entry anticipated: Oral, Dermal, Inhalation,

Eves

Capilary Storage Solution Routes of entry anticipated: Oral, Dermal, Inhalation,

Eyes.

Protein Conditioning Solution Not available.

2x Protein Inlet Buffer Routes of entry anticipated: Oral, Dermal, Inhalation,

Eyes.

Protein Broad Range Gel Routes of entry anticipated: Oral, Dermal, Inhalation,

Eyes.

P240 Broad Range Ladder Routes of entry anticipated: Oral, Dermal, Inhalation,

Eyes.

10x Protein Labeling Buffer Routes of entry anticipated: Oral, Dermal, Inhalation,

Eyes

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Section 11. Toxicological information

Potential acute health effects

Eye contact

: Protein Fluorescent Dye

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

of the eyes.

Dye Resuspension DMF Capilary Storage Solution Protein Conditioning Solution

Causes eye irritation.

Causes serious eye irritation.

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.

Causes eye irritation.

Causes serious eye damage.

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 Capilary Storage Solution **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.

Skin contact

: Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution

Harmful in contact with skin. 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.

Ingestion

: 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

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

Symptoms related to the physical, chemical and toxicological characteristics

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

Adverse symptoms may include the following:

irritation watering redness

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

No specific data. No specific data.

Adverse symptoms may include the following:

irritation watering

redness

10x Protein Labeling Buffer

Adverse symptoms may include the following:

pain watering redness

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Section 11. Toxicological information

: Protein Fluorescent Dye Adverse symptoms may include the following:

respiratory tract irritation

coughing

Dye Resuspension DMF No specific data. 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 Ladder No specific data. 10x Protein Labeling Buffer No specific data.

Protein Fluorescent Dye Skin contact No specific data. Dye Resuspension DMF No specific data.

Adverse symptoms may include the following: Capilary Storage Solution

> 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 Ladder No specific data.

10x Protein Labeling Buffer Adverse symptoms may include the following:

> pain or irritation redness

blistering may occur

Protein Fluorescent Dye Ingestion

No specific data. Dye Resuspension DMF No specific data. 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 Ladder No specific data.

10x Protein Labeling Buffer Adverse symptoms may include the following:

stomach pains

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

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General : Protein Fluorescent Dye

Dye Resuspension DMF

Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

No known significant effects or critical hazards. Capilary Storage Solution Once sensitized, a severe allergic reaction may occur

Protein Conditioning Solution 2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range Ladder 10x Protein Labeling Buffer

when subsequently exposed to very low levels. No known significant effects or critical hazards. No known significant effects or critical hazards.

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Section 11. Toxicological information

Carcinogenicity

: 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

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

Mutagenicity

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

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

Reproductive toxicity

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

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

Numerical measures of toxicity

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	N/A	N/A
Capilary Storage Solution					
Glycerol	12600	N/A	N/A	N/A	N/A
2-Methyl-2H-isothiazol-3-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	27170.0	N/A	N/A	N/A
Sodium dodecyl sulphate	1288	1100	N/A	N/A	N/A

Other information

: Dye Resuspension DMF

Capilary Storage Solution

Adverse symptoms include the following: central nervous system depression, liver abnormalities. Adverse symptoms may include the following: May cause skin sensitisation.

Section 12. Ecological information

Toxicity

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Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
Dye Resuspension DMF			
N,N-Dimethylformamide	Acute EC50 14.4 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute EC50 7100000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 >100000 μg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Chronic NOEC 1500 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Fish - <i>Oncorhynchus mykiss</i> - Embryo	30 days
Capilary Storage Solution			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
2-Methyl-2H-isothiazol-3-one	Acute EC50 0.18 ppm Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 0.07 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.044 mg/l Fresh water	Daphnia	21 days
	Chronic NOEC 4.93 mg/l Fresh water	Fish	98 days
P240 Broad Range Ladder			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
10x Protein Labeling Buffer			
Sodium dodecyl sulphate	Acute EC50 1200 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 900 μg/l Marine water	Crustaceans - <i>Artemia salina</i> - Adult	48 hours
	Acute LC50 1400 μg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 590 µg/l Fresh water	Fish - Cirrhinus mrigala - Larvae	96 hours
	Chronic NOEC 1.25 mg/l Marine water	Algae - <i>Ulva fasciata</i> - Zoea	96 hours
	Chronic NOEC 1 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	21 days
	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 0.8 mg/l Fresh water	Fish - Gambusia holbrooki	28 days

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Capilary Storage Solution				
Glycerol	301D Ready	93 % - 30 days	-	-
	Biodegradability - Closed Bottle			
	Test			
2-Methyl-2H-isothiazol-3-one	301D Ready	0 % - Not readily - 28 days	-	-
	Biodegradability -	-		
	Closed Bottle Test			
	1621			
P240 Broad Range Ladder				
Glycerol	301D Ready	93 % - 30 days	-	-
	Biodegradability - Closed Bottle			
	Test			
10x Protein Labeling Buffer				
Sodium dodecyl sulphate	OECD 301B	95 % - Readily - 28 days	20 mg/l	-
	Ready Biodegradability -			
	CO2 Evolution			
	Test			

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Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability	
Capilary Storage Solution 2-Methyl-2H-isothiazol-3-one	-	-	Not readily	
10x Protein Labeling Buffer Sodium dodecyl sulphate	-	-	Readily	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Dye Resuspension DMF N,N-Dimethylformamide	-1.01	0.79	Low
Capilary Storage Solution Glycerol 2-Methyl-2H-isothiazol-3-one	-1.76 0.119	-	Low Low
P240 Broad Range Ladder Glycerol	-1.76	-	Low
10x Protein Labeling Buffer Sodium dodecyl sulphate	-2.03	-	Low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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

	ADG	IMDG	IATA
UN number	UN3316	UN3316	UN3316
UN proper shipping name	CHEMICAL KIT	CHEMICAL KIT	Chemical kit
Transport hazard class(es)	9	9	9
Packing group	III	III	III

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Additional information

ADG : Hazchem code 2Z

Special provisions 251, 340

IMDG : **Emergency schedules** F-A, S-P

Special provisions 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

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.

Transport in bulk according : Not available.

to IMO instruments

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

6.5

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

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)

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined. **New Zealand** : Not determined.

United States : At least one component is not listed.

Section 16. Any other relevant information

History

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Section 16. Any other relevant information

Key to abbreviations

: ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

Procedure used to derive the classification

Classification	Justification
Dye Resuspension DMF	
FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4	On basis of test data On basis of test data
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A	On basis of test data
Capilary Storage Solution SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B SKIN SENSITISATION - Category 1	Calculation method Calculation method
P240 Broad Range Ladder SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Calculation method
10x Protein Labeling Buffer SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	Calculation method

Indicates information that has changed from previously issued version.

Notice to reader

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