

#### Trade name:

# Western Lightning Plus

#### Article number:

NEL103E001EA Western Lightning Plus-ECL Enhanced Chemiluminescence Substrate for 200 cm<sup>2</sup> of membrane
 NEL103001EA Western Lightning Plus-ECL Enhanced Chemiluminescence Substrate for 1000 cm<sup>2</sup> of membrane
 NEL104001EA Western Lightning Plus-ECL Enhanced Chemiluminescence Substrate for 2500 cm<sup>2</sup> of membrane
 NEL105001EA Western Lightning Plus-ECL Enhanced Chemiluminescence Substrate for 5000 cm<sup>2</sup> of membrane

012024 V1.0

#### NEL103E001EA:

Composition		Hazards identification
0RT2751	Luminol Reagent Plus	GHS08, H360
0RT2651	Oxidizer Reagent Plus	

#### NEL103001EA:

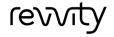
Composition		Hazards identification
0RT2753	Luminol Reagent Plus	GHS08, H360
0RT2653	Oxidizer Reagent Plus	

#### NEL104001EA:

Composition		Hazards identification
0RT2755	Luminol Reagent Plus	GHS08, H360
0RT2655	Oxidizer Reagent Plus	

#### NEL105001EA:

Composition		Hazards identification	
0RT2755	Luminol Reagent Plus	GHS08, H360	
0RT2655	Oxidizer Reagent Plus		



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	1: Identification	of the substance/mixture and of the	company/undertaking
1.1 Product	identifier		
Trade name	e: Luminol Reagent Pl	lus	
Article num	ber: 0RT2751, 0RT27.	753, 0RT2755	
		e substance or mixture and uses advised agai	inst
	elevant information av		
Application	of the substance / the	e <b>mixture</b> Laboratory chemicals	
1.3 Details (	of the supplier of the s	safety data sheet	
	rer/Supplier:		
	<i>lth Sciences B.V.</i>		
Rigaweg 22	· · · · · · · · · · · · · · · · · · ·		
9723 TH Gr The Netherla	0		
	1 50 5445900		
www.revvity			
•	ormation obtainable fi	from:	
		Safety & Health (QA/ESH)	
	gen@revvity.com		
	ncy telephone number	<i>r</i> :	
+31 50 5443			
CHEMIRE	C: +1 703-527-3887		
h.	ealth hazard		
Repr. 1B H	360 May damage ferti	ility or the unborn child.	
2.2 Label el			
	ccording to Regulation	on (EC) No 1272/2008	
The product	is classified and label	lled according to the GB CLP regulation.	
The product	is classified and label	<i>lled according to the GB CLP regulation.</i>	
The product	is classified and label	lled according to the GB CLP regulation.	
The product	is classified and label	lled according to the GB CLP regulation.	
The product Hazard pict	is classified and label	lled according to the GB CLP regulation.	
The product	is classified and label	lled according to the GB CLP regulation.	
The product Hazard pict GHS08 Signal word	is classified and label ograms I Danger	lled according to the GB CLP regulation.	
The product Hazard pict GHS08 Signal word Hazard state	t is classified and label ograms I Danger ements		
The product Hazard pict GHS08 Signal word Hazard state H360 May a	is classified and label ograms Danger ements lamage fertility or the		
The product Hazard picts GHS08 Signal word Hazard stats H360 May a Precautiona	t is classified and label ograms I Danger ements lamage fertility or the try statements	unborn child.	
The product Hazard picts GHS08 Signal word Hazard stats H360 May a Precautiona P201	t is classified and label ograms I Danger ements lamage fertility or the <b>ury statements</b> Obtain special instrue	unborn child. actions before use.	erstood.
The product Hazard picts GHS08 Signal word Hazard stats H360 May a Precautiona P201 P202	t is classified and label ograms I Danger ements lamage fertility or the try statements Obtain special instruct Do not handle until a	unborn child.	
The product Hazard picts GHS08 Signal word Hazard stats H360 May a Precautiona P201 P202 P280 P308+P313	is classified and label ograms Danger ements lamage fertility or the iry statements Obtain special instruc Do not handle until a Wear protective glove IF exposed or concer-	unborn child. actions before use. all safety precautions have been read and under	
The product Hazard picts GHS08 Signal word Hazard stats H360 May a Precautiona P201 P202 P280 P308+P313 P405	is classified and label ograms Danger ements lamage fertility or the <b>ry statements</b> Obtain special instruct Do not handle until a Wear protective glove IF exposed or concert Store locked up.	unborn child. actions before use. all safety precautions have been read and under es/protective clothing/eye protection/face prot rned: Get medical advice/attention.	tection.
The product Hazard picts GHS08 Signal word Hazard stats H360 May a Precautiona P201 P202 P280 P308+P313	is classified and label ograms Danger ements lamage fertility or the <b>ry statements</b> Obtain special instruct Do not handle until a Wear protective glove IF exposed or concert Store locked up.	unborn child. actions before use. all safety precautions have been read and under es/protective clothing/eye protection/face p	tection.

Safety data sheet

according to 1907/2006/EC, Article 31

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• Additional information:

Safety data sheet available on request.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

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

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 1303-96-4	disodium tetraborate decahydrate	≤2.5%
EINECS: 215-540-4	& Repr. 1B, H360FD	-
Index number: 005-011-00-4	<b>Eye</b> Irrit. 2, H319	
CAS: 20666-12-0	3-Aminophthalhydrazide monosodium salt	≤2.5%
	🚯 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	-
CAS: 1310-73-2	Sodium hydroxide	≤2.5%
EINECS: 215-185-5	<i>♦ Met. Corr.1, H290; Skin Corr. 1A, H314</i>	-
Index number: 011-002-00-6	Specific concentration limits: Skin Corr. 1A; H314: $C \ge 5$ %	
	<i>Skin Corr.</i> 1 <i>B</i> ; <i>H</i> 314: 2 % ≤ <i>C</i> < 5 %	
	<i>Skin Irrit. 2; H315: 0.5 % ≤ C &lt; 2 %</i>	
	<i>Eye Irrit. 2; H319: 0.5 % ≤ C &lt; 2 %</i>	
CAS: 501-98-4	p-Coumaric acid	≤2.5%
	trans-4-Hydroxycinnamic acid	
	𝚯 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
·SVHC		
1303-96-4 disodium tetrabor	ate decahydrate	
· Non-dangerous components		
CAS: 67-68-5 dimethy	l sulfoxide	≤2.5%
EINECS: 200-664-3		
	listilled, conductivity or of similar purity	80-100%
EINECS: 231-791-2		
Additional information: For	the wording of the listed hazard phrases refer to section 16.	

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

• 4.1 Description of first aid measures

· After inhalation: Supply fresh air; consult doctor in case of complaints.

• After skin contact: Generally the product does not irritate the skin.

• After eye contact: Rinse opened eye for several minutes under running water.

• After swallowing: If symptoms persist consult doctor.

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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

No further relevant information available.

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

• 5.1 Extinguishing media

- Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

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

· 6.1 Personal precautions, protective equipment and emergency procedures Not required.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

- Inform respective authorities in case of seepage into water course or sewage system.
- 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
- 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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

• 7.1 Precautions for safe handling No special precautions are necessary if used correctly.

- Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · 7.3 Specific end use(s) No further relevant information available.

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

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Respiratory protection: Not required.
- · Hand protection

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Protective gloves

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EN ISO 374-1/Type B • Material of gloves Nitrile rubber, NBR Recommended thickness of the material: ≥ 0.1 mm Breakthrough time > 480 minutes The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. • Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection



Tightly sealed goggles

· Body protection: Protective work clothing

#### SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical p	properties	
· General Information	•	
· Colour:	Light yellow	
· Odour:	Odourless	
· Odour threshold:	Not determined.	
· Melting point/freezing point:	Undetermined.	
· Boiling point or initial boiling point and boiling		
range	100 °C (212 °F)	
· Flammability	Not determined.	
· Lower and upper explosion limit		
· Lower:	Not determined.	
· Upper:	Not determined.	
· Flash point:	Not applicable.	
• Decomposition temperature:	Not determined.	
· pH	Not applicable.	
· Viscosity:		
· Kinematic viscosity	Not applicable.	
· Dynamic:	Not applicable.	
· Solubility		
· water:	Fully miscible.	
• Partition coefficient n-octanol/water (log value)	Not determined.	
· Vapour pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density and/or relative density		
Density:	Not determined.	
Relative density	Not determined.	
Vapour density	Not applicable.	
9.2 Other information		
· Appearance:		
· Form:	Liquid	
• Important information on protection of health an	nd	
environment, and on safety.	Product is not salfigniting	
· Ignition temperature:	Product is not selfigniting.	
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Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical hazard of	classes
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flamm	able
gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

#### SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- $\cdot$  Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity
- May damage fertility or the unborn child.
- *STOT-single exposure Based on available data, the classification criteria are not met.*
- $\cdot \textit{STOT-repeated exposure Based on available data, the classification criteria are not met.}$
- $\cdot$  Aspiration hazard Based on available data, the classification criteria are not met.

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#### • 11.2 Information on other hazards

• Endocrine disrupting properties

None of the ingredients is listed.

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

· 12.1 Toxicity

- Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- Additional ecological information:
- · General notes: Not hazardous for water.

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

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

## **SECTION 14: Transport information**

· 14.1 UN number or ID number · ADR, ADN, IMDG, IATA	Void	
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No	
· 14.6 Special precautions for user	Not applicable.	
• 14.7 Maritime transport in bulk according instruments	<b>g to IMO</b> Not applicable.	
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· UN "Model Regulation":

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Poisons Act

· Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors None of the ingredients is listed.

Reportable poisons

1310-73-2 Sodium hydroxide

12% of total caustic alkalinity

· National regulations:

· Substances of very high concern (SVHC) according to UK REACH

1303-96-4 disodium tetraborate decahydrate

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Relevant phrases

- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

H360FD May damage fertility. May damage the unborn child.

• Department issuing SDS: Quality Assurance, Environment, Safety & Health (QA/ESH)

- · Contact: SDS.Groningen@revvity.com
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative Met. Corr.1: Corrosive to metals - Category 1
- Skin Corr. 1A: Skin corrosion/irritation Category 1A
- Skin Irrit. 2: Skin corrosion/irritation Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation Category 2
- Repr. 1B: Reproductive toxicity Category 1B

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Repr. 1B: Reproductive toxicity – Category 1B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 • \* **Data compared to the previous version altered.** 

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