

#### 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:

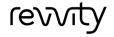
Composition		Hazards identification
0RT2753	Luminol Reagent Plus	GHS08, H360
0RT2653	Oxidizer Reagent Plus	

#### 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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Hazardous according to criteria of Australian Safety and Compensation Council.

### 1 Identification

#### · Product identifier

- · Trade name: Luminol Reagent Plus
- · Article number: 0RT2751, 0RT2753, 0RT2755
- · Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.
- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

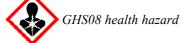
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## Further information obtainable from: Quality Assurance, Environment, Safety & Health (QA/ESH) SDS.Groningen@revvity.com Emergency telephone number:

+31 50 5445971 CHEMTREC (within Australia) +(61)-290372994 CHEMTREC (from outside Australia) +1 703-527-3887

#### 2 Hazard(s) Identification

· Classification of the substance or mixture



Repr. 1B H360FD May damage fertility. May damage the unborn child.

· Label elements

· GHS label elements

*The product is classified and labelled according to the Globally Harmonised System (GHS).* • *Hazard pictograms* 



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Trade name: Luminol Reagent Plus

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Signal w	ord Danger
Hazard s	statements
H360FD	May damage fertility. May damage the unborn child.
Precauti	onary statements
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P.	313 IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other ha	nzards
Results of	f PBT and vPvB assessment
PBT: No	t applicable.

• **vPvB:** Not applicable.

#### 3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

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

· Dangerous	components:	
1303-96-4	disodium tetraborate decahydrate	≤2.5%
	& Repr. 1B, H360	
	Serious eye damage/irritation – Category 2A, H319	
20666-12-0	3-Aminophthalhydrazide monosodium salt	≤2.5%
	Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319; STOT SE 3, H335	
501-98-4	p-Coumaric acid	≤2.5%
	trans-4-Hydroxycinnamic acid	
	Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319; STOT SE 3, H335	
1310-73-2	Sodium hydroxide	≤2.5%
	♦ Met. Corr.1, H290; Skin Corr. 1A, H314	
SVHC		
1303-96-4	disodium tetraborate decahydrate	
· Non-danger	rous components	
67-68-5	dimethyl sulfoxide	≤2.5%
7732-18-5	water, distilled, conductivity or of similar purity	80-100%
Additional	information: For the wording of the listed hazard phrases refer to section 16.	

#### 4 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.

· Information for doctor:

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

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• *Indication of any immediate medical attention and special treatment needed No further relevant information available.* 

### **5** Fire Fighting Measures

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

#### 6 Accidental Release Measures

• *Personal precautions, protective equipment and emergency procedures Not required.* • *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.
- Methods and material for containment and cleaning up: Pick up mechanically.
- 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.

#### 7 Handling and Storage

· Handling:

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

- · Information about fire and explosion protection: No special measures required.
- · 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.
- Specific end use(s) No further relevant information available.

#### 8 Exposure controls and personal protection

• Additional information about design of technical facilities: No further data; see section 7.

· Ingredients with limit values that require monitoring at the workplace:

1303-96-4 disodium tetraborate decahydrate

WES Long-term value: 5 mg/m<sup>3</sup>

- · Additional information: The lists valid during the making were used as basis.
- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Respiratory protection: Not required.
- · Protection of hands:



Protective gloves

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EN ISO 374-1/Type B • Material of gloves Nitrile rubber, NBR Recommended thickness of the material:  $\geq 0.1$  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 protection:



Tightly sealed goggles

· Body protection: Protective work clothing

Physical and Chemical Properti		
General Information		
Appearance:		
Form:	Liquid	
Colour:	Light yellow	
Odour:	Odourless	
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range:	• 100 °C	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not determined.	
Decomposition temperature:	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure at 20 °C:	23 hPa	
Density:	Not determined.	
Relative density	Not determined.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
water:	Fully miscible.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	

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· Other information

No further relevant information available.

#### 10 Stability and Reactivity

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

#### **11 Toxicological Information**

- · Information on toxicological effects
- · 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.
- Serious eve 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. May damage the unborn child.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

### 12 Ecological Information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- Additional ecological information:
- · General notes: Not hazardous for water.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

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

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Trade name: Luminol Reagent Plus

· Uncleaned packaging:

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

Transport information		
· UN-Number · ADG, ADN, IMDG, IATA	Void	
UN proper shipping name ADG, ADN, IMDG, IATA	Void	
Transport hazard class(es)		
ADG, ADN, IMDG, IATA Class	Void	
Packing group ADG, IMDG, IATA	Void	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
• Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.		
UN "Model Regulation":	Void	

## 15 Regulatory information

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

· Australian Inventory of Industrial Chemicals				
1303-96-4	disodium tetraborate decahydrate			
1310-73-2	Sodium hydroxide			
67-68-5	dimethyl sulfoxide			
7732-18-5	water, distilled, conductivity or of similar purity			
· Standard f	· Standard for the Uniform Scheduling of Medicines and Poisons			
	Sodium hydroxide	S5+APPENDIX C, S6+APPENDIX C		
67-68-5	dimethyl sulfoxide	<i>S4, S6</i>		
	-			

· GHS label elements

*The product is classified and labelled according to the Globally Harmonised System (GHS).* • *Hazard pictograms* 



· Signal word Danger

· Hazard statements

H360FD May damage fertility. May damage the unborn child.

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Precautionary statements
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· National regulations:

• Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57

1303-96-4 disodium tetraborate decahydrate

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

#### 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. H360 May damage fertility or 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 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 SVHC: Substances of Very High Concern 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 Serious eye damage/irritation - Category 2A: Serious eye damage/eye irritation - Category 2A Repr. 1B: Reproductive toxicity - Category 1B Repr. 1B: Reproductive toxicity - Category 1B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 • \* Data compared to the previous version altered.