

Trade name:

Western Lightning Plus

Article number:

NEL103E001EA Western Lightning Plus-ECL Enhanced Chemiluminescence Substrate for 200 cm² of membrane
NEL103001EA Western Lightning Plus-ECL Enhanced Chemiluminescence Substrate for 1000 cm² of membrane
NEL104001EA Western Lightning Plus-ECL Enhanced Chemiluminescence Substrate for 2500 cm² of membrane
NEL105001EA Western Lightning Plus-ECL Enhanced Chemiluminescence Substrate for 5000 cm² of membrane

012024 V1.0

NEL103E001EA:

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

NEL103001EA:

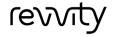
Composition		Hazards identification
0RT2753	Luminol Reagent Plus	GHS08, H360
0RT2653	Oxidizer Reagent Plus	

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 · Product identifier · Trade name: Luminol Reagent Plus · Article number: 0RT2751, 0RT2753, 0RT2755 · Application of the substance / the mixture Laboratory chemicals · Details of the supplier of the safety data sheet · Manufacturer/Supplier: Revvity Health Sciences B.V. Rigaweg 22 9723 TH Groningen The Netherlands Phone: 0031 50 5445900 www.revvity.com · Information department: Quality Assurance, Environment, Safety & Health (QA/ESH) SDS.Groningen@revvity.com · Emergency telephone number: +31 50 5445971 CHEMTREC (within U.S.A. and Canada) 1-800-424-9300 CHEMTREC (from outside U.S.A. and Canada) +1703-527-3887 2 Hazard(s) identification Classification of the substance or mixture GHS08 Health hazard Toxic to Reproduction 1B H360 May damage fertility or the unborn child. · Label elements · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS08 · Signal word Danger · Hazard statements H360 May damage fertility or the unborn child. · Precautionary statements P201 Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. P202 Wear protective gloves/protective clothing/eye protection/face protection. P280 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. · Other hazards · Results of PBT and vPvB assessment

• **PBT:** Not applicable.

(Contd. on page 2)

US

2

Safety Data Sheet acc. to OSHA HCS

Printing date 01/15/2024

Trade name: Luminol Reagent Plus

· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous	components:	
1303-96-4	disodium tetraborate decahydrate	≤2.5%
	Toxic to Reproduction 1B, H360 Eye Irritation 2A, H319	
20666-12-0	3-Aminophthalhydrazide monosodium salt Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity -	≤2.5%
	Single Exposure 3, H335	
501-98-4	p-Coumaric acid trans-4-Hydroxycinnamic acid	≤2.5%
	Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	
1310-73-2	Sodium hydroxide	≤2.5%
	Orrosive to Metals 1, H290; Skin Corrosion 1A, H314	
· Non-Dange	rous components	
67-68-5	dimethyl sulfoxide	≤2.5%
7732-18-5	water, distilled, conductivity or of similar purity	80-100%
· Additional i	<i>nformation:</i> For the wording of the listed hazard phrases refer to section 16.	

4 First-aid measures

· 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.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing 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.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Not required.

(Contd. on page 3)

(Contd. of page 1)

Reviewed on 01/15/2024

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Printing date 01/15/2024

Trade name: Luminol Reagent Plus

Reviewed on 01/15/2024

	(Contd. of page
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.	
Protective Action Criteria for Chemicals	
PAC-1:	
1303-96-4 disodium tetraborate decahydrate	$6 mg/m^3$
67-68-5 dimethyl sulfoxide	150 ppm
1310-73-2 Sodium hydroxide	0.5 mg/m
PAC-2:	
1303-96-4 disodium tetraborate decahydrate	190 mg/m
67-68-5 dimethyl sulfoxide	290 ppm
1310-73-2 Sodium hydroxide	5 mg/m ³
PAC-3:	
1303-96-4 disodium tetraborate decahydrate	1,100 mg/m
67-68-5 dimethyl sulfoxide	1,800 ppm
1310-73-2 Sodium hydroxide	50 mg/m^3

7 Handling and storage

- · Handling:
- Precautions for safe handling No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: No special measures required.
- · 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.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

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

· Control parameters

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

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

1303-96-4 disodium tetraborate decahydrate

REL Long-term value: 5 mg/m³

TLV Short-term value: 6* mg/m³

Long-term value: 2* mg/m³

*as inhalable fraction

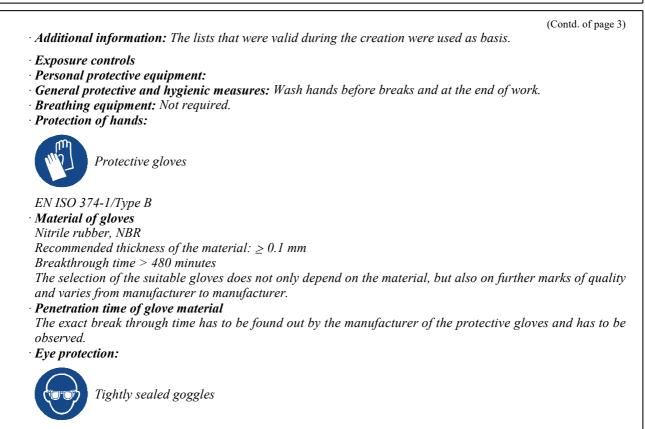
(Contd. on page 4)

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Printing date 01/15/2024

Trade name: Luminol Reagent Plus

Reviewed on 01/15/2024



· Body protection: Protective work clothing

Information on basic physical and	chemical properties	
General Information		
Appearance: Form:	Liquid	
Color:	Light yellow	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not determined.	
Decomposition temperature:	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	

Page 5/8

Printing date 01/15/2024

Reviewed on 01/15/2024

Trade name: Luminol Reagent Plus

		(Contd. of page 4
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
· Density:	Not determined.	
· Relative density	Not determined.	
· Vapor density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/wate	er): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
• Other information	No further relevant information available.	

10 Stability and reactivity

· *Reactivity* No further relevant information available.

- · Chemical stability
- 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:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:
- · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

• OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

(Contd. on page 6)

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Safety Data Sheet acc. to OSHA HCS

Printing date 01/15/2024

Trade name: Luminol Reagent Plus

Reviewed on 01/15/2024

(Contd. of page 5)

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior 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 of together with household garbage. Do not allow product to reach sewage system.
- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

UN-Number ADR, ADN, IMDG, IATA	Void
UN proper shipping name ADR, ADN, IMDG, IATA	Void
Transport hazard class(es)	
ADR, ADN, IMDG, IATA Class	Void
Packing group ADR, IMDG, IATA	Void
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	f Not applicable.
UN "Model Regulation":	Void

15 Regulatory information

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

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Safety Data Sheet acc. to OSHA HCS

Printing date 01/15/2024

Reviewed on 01/15/2024

Trade name: Luminol Reagent Plus

Sana	(Contd. of page
Sara Section 355 (extremely hazardous substances):	
None of the ingredient is listed.	
Section 313 (Specific toxic chemical listings): None of the ingredients is listed.	
TSCA (Toxic Substances Control Act):	ACTIV
7732-18-5 water, distilled, conductivity or of similar purity	ACTIV ACTIV
1303-96-4 disodium tetraborate decahydrate	ACTIVI
Hazardous Air Pollutants	
None of the ingredients is listed.	
Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
Carcinogenic categories	
EPA (Environmental Protection Agency)	
1303-96-4 disodium tetraborate decahydrate	I (oral
• TLV (Threshold Limit Value)	
1303-96-4 disodium tetraborate decahydrate	A
MAK (German Maximum Workplace Concentration)	
None of the ingredients is listed.	
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms	
GHS08	
Signal word Danger Hazard statements	
H360 May damage fertility or the unborn child. • Precautionary statements	
P201 Obtain special instructions before use	

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.

(Contd. on page 8)

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Printing date 01/15/2024

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(Contd. of page 7) P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· 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	
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Abbreviations and acronyms:	.1
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concernin International Carriage of Dangerous Goods by Road)	g the
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	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
Corrosive to Metals 1: Corrosive to metals – Category 1	
Skin Corrosion 1A: Skin corrosion/irritation – Category 1A	
Skin Irritation 2: Skin corrosion/irritation – Category 2	
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A Toxia to Poproduction IB: Poproducting toxiaity – Category IP	
Toxic to Reproduction 1B: Reproductive toxicity – Category 1B Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3	
* Data compared to the previous version altered.	
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