

SAFETY DATA SHEET

United States

Section 1. Identification Product name

Detection Reagent 1; part of 'ECL™ Western Blotting Detection Reagents, for 1,000 cm² membrane' **RPN2109**

Catalogue Number

Other means of identification Not available. Liquid.

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

Identified uses

Product type

Analytical chemistry.

Use in laboratories

Scientific research and development

Industrial applications: Analytical chemistry. Laboratory use. Scientific research and development.

Supplier

Cytiva Amersham Place Little Chalfont Buckinghamshire HP7 9NA United Kingdom +44 0800 515 313

Cytiva USA 100 Results Way Marlborough, MÁ 01752 1-800-526-3593

In case of emergency

INFOTRAC - 24 Hour number: 1-800-535-5053 Outside of the United States, call 24 Hour number: 001-352-323-3500 (Call Collect)

Section 2. Hazards identification

OSHA/HCS status	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	Not classified.
GHS label elements	
Signal word	No signal word.
Hazard statements	No known significant effects or critical hazards.
Precautionary statements	
Prevention	Not applicable.
Response	Not applicable.
Storage	Not applicable.
Disposal	Not applicable.
Hazards not otherwise classified	None known.



Page: 1/7 Validation date 27 April 2021

Section 3. Composition/information on ingredients

Substance/mixture Other means of identification	Mixture Not available.		
CAS number/other identifiers CAS number	Not applicable.		
Ingredient name boric acid		% 0.5 - 1	CAS number 10043-35-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

Section 4. First aid measures

Description of necessary first ai	d measures
Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check
Inhalation	for and remove any contact lenses. Get medical attention if irritation occurs. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
Most important symptoms/effect	ts, acute and delayed
Potential acute health effects	
Eye contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.
Over-exposure signs/symptom	<u>is</u>
Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	No specific data.
Ingestion	No specific data.
Indication of immediate medical	attention and special treatment needed, if necessary
Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	No specific treatment.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.
See toxicological information (S	ection 11)
Section 5. Fire-fighting n	neasures
Extinguishing media	
Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	No specific data.

Special protective actions for
fire-fightersPromptly 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 equipmentFire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

(SCBA) with a full face-piece operated in positive pressure mode.

Special protective equipment for fire-fighters

25006265-1

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	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 spilled material. Put on appropriate personal protective equipment.
For emergency responders	If specialized 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	Avoid dispersal of spilled 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 materials for contain	inment and cleaning up
Small spill	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.
Large spill	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
Section 7. Handling and	storage

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Precautions for safe handling	
Protective measures	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	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.
Conditions for safe storage, including any incompatibilities	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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits Ingredient name boric acid	Exposure limits -
Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
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: safety glasses with side-shields.
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.
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.

25006265-1

Page: 3/7 Validation date 27 April 2021

 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

<u>Appearance</u>	
Physical state	Liquid.
Color	Colorless.
Odor	Odorless.
Odor threshold	Not available.
рН	Not available.
Melting point	Not available.
Boiling point	Not available.
Flash point	[Product does not sustain combustion.]
Burning time	Not applicable.
Burning rate	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Lower and upper explosive	Not available.
(flammable) limits	
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility	Easily soluble in the following materials: cold water and hot water.
Solubility in water	Not available.
Partition coefficient: n-octanol/	Not available.
water	
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
SADT	Not available.
Viscosity	Not available.
Flow time (ISO 2431)	Not available.
A subscription also also also also also also also also	

Aerosol product

Section 10. Stability and reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	No specific data.
Incompatible materials	No specific data.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity Product/ingredient name boric acid	Result LD50 Oral	Species Rat	Dose 2660 mg/kg	Exposure -
Irritation/Corrosion Not available.				
<u>Sensitization</u> Not available.				
Mutagenicity Not available.				
Carcinogenicity Not available.				
Conclusion/Summary <u>Reproductive toxicity</u>	No additional remark.			

Article Number :

25006265-1



membrane' Not available.						
Teratogenicity Not available.						
<u>Specific target organ toxicity (s</u> Not available.	<u>ingle exposure)</u>					
<u>Specific target organ toxicity (r</u> Not available.	epeated exposure)					
Aspiration hazard Not available.						
Information on the likely routes of exposure	Routes of entry anticipate	d: Oral, Dermal,	Inhalatio	n.		
Potential acute health effects						
Eye contact Inhalation Skin contact	No known significant effec No known significant effec No known significant effec	cts or critical haz cts or critical haz	ards. ards.			
Ingestion	No known significant effe	cts or critical haz	ards.			
Symptoms related to the physica	-	ical characteris	tics			
Eye contact Inhalation Skin contact Ingestion	No specific data. No specific data. No specific data. No specific data.					
Delayed and immediate effects a	nd also chronic effects fro	om short and lo	ong term	<u>exposure</u>		
Short term exposure						
Potential immediate effects Potential delayed effects	Not available. Not available.					
Long term exposure						
Potential immediate effects Potential delayed effects	Not available. Not available.					
Potential chronic health effects Not available.						
General Carcinogenicity Mutagenicity Teratogenicity Developmental effects Fertility effects	No known significant effec No known significant effec	cts or critical haz cts or critical haz cts or critical haz cts or critical haz	zards. zards. zards. zards.			
Numerical measures of toxicity	-					
Acute toxicity estimates						
Product/ingredient name		Oral (mg/kg)	Dermal (mg/kg)		Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
boric acid		2660	N/A	N/A	N/A	N/A
Section 12. Ecological in	formation					
Toxicity Draduat/ingradiant name	Decult		C m			Evenne
Product/ingredient name boric acid	Result Acute LC50 45.5 mg/l Fre Acute LC50 133000 µg/l Acute LC50 75 mg/l Marin Chronic NOEC 6000 µg/l Chronic NOEC 2100 µg/l	Fresh water ne water Fresh water	Cru Da Fis Da	ecies ustaceans - Ceriod phnia - Daphnia m h - Pagrus major phnia - Daphnia m h - Oncorhynchus	agna - Neonate agna	Exposure 48 hours 48 hours 96 hours 21 days 87 days
Persistence and degradability Not available.						
Bioaccumulative potential Product/ingredient name	LogPow	BCF			Potential	

25006265-1

Version 10

Validation date 27 April 2021

Page: 5/7

Detection Reagent 1; part of 'ECI nembrane'	g _		
boric acid	-1.09	-	low
Mobility in soil Soil/water partition coefficient (K	Not available.		
₀₀) Other adverse effects	No known significa	ant effects or critical hazards.	
Section 13. Disposal co	-		
Disposal methods	product, solutions a environmental prot requirements. Dis contractor. Waste requirements of all or landfill should of must be disposed	waste should be avoided or minimized wherev and any by-products should at all times compl tection and waste disposal legislation and any pose of surplus and non-recyclable products v should not be disposed of untreated to the se I authorities with jurisdiction. Waste packaging nly be considered when recycling is not feasib of in a safe way. Empty containers or liners m spilled material and runoff and contact with so	y with the requirements of regional local authority via a licensed waste disposal wer unless fully compliant with the g should be recycled. Incineration le. This material and its container way retain some product residues.
Section 14. Transport in			
Product is not regulated as d	angerous goods for t	transport.	
Section 15. Regulatory	information		
J.S. Federal regulations	• •	xempt/Partial exemption: Not determined (CWA) 311: sodium hydroxide	
HAPs)			
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UNECE Aarhus Protocol	on POPs and Heavy Metals
Not listed.	
Inventory list	
United States	Not determined.
Europe	Not determined.
Canada inventory	Not determined.

Section 16. Other information

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classi	fication Justification
Not classified.	
<u>History</u>	
Date of printing	4/27/2021
Date of issue/Date of revision	4/27/2021
Date of previous issue	10/10/2019
Version	10
	sds_author@cytiva.com
Key to abbreviations	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate 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 UN = United Nations
References	Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

