

SAFETY DATA SHEET

United States

Section 1. Identification Product name

Detection Reagent 2; part of 'ECL[™] Detection Reagents, for 4,000 cm² membrane'

Catalogue Number

RPN2105

Other means of identificationNot available.Product typeLiquid.

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

Identified uses

Use in laboratories

Industrial applications: Analytical chemistry. Research.

Supplier

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

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

In case of emergency	ChemTrec US (available 24/7) 1-800-424-9300		
Section 2. Hazards iden	tification		
OSHA/HCS status	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS 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.		



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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.

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

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 for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	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
Ingestion	medical attention if symptoms occur. 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>s</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	In a fire or if heated, a pressure increase will occur and the container may burst.

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

No action shall be taken involving any personal risk or without suitable training.

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

the chemical Hazardous thermal

fire-fighters

for fire-fighters

decomposition products Special protective actions for

Special protective equipment

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No specific data.

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 conta	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

Section 7. Handling and storage

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.

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.

25006261-2 **Respiratory protection**Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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 considered to be flammable.
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.
Aerosol product	

Section 10. Stability and reactivity

Reactivity Chemical stability	No specific test data related to reactivity available for this product or its ingredients. 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.				
Sensitization Not available.				
Mutagenicity Not available.				
Carcinogenicity Not available.				
Reproductive toxicity				

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Detection Reagent 2; part of 'ECL'	Detection Reagents, for 4	1,000 cm² memb	rane			RPN2105
Not available.						
<u>Teratogenicity</u> Not available.						
<u>Specific target organ toxicity (s</u> Not available.	<u>ingle exposure)</u>					
<u>Specific target organ toxicity (r</u> Not available.	<u>epeated exposure)</u>					
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	No known significant effe	cts or critical haz	zards.			
Inhalation	No known significant effe	cts or critical haz	zards.			
Skin contact	No known significant effe					
Ingestion	No known significant effe	cts or critical haz	zards.			
Symptoms related to the physica	I, chemical and toxicolog	ical characteris	stics			
Eye contact	No specific data.					
Inhalation	No specific data.					
Skin contact	No specific data.					
Ingestion	No specific data.					
Delayed and immediate effects a	nd also chronic effects fr	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	No known significant effe	cts or critical haz	zards.			
Carcinogenicity	No known significant effe					
Mutagenicity	No known significant effe	cts or critical haz	zards.			
Teratogenicity	No known significant effe					
Developmental effects	No known significant effe					
Fertility effects	No known significant effe	cts or critical haz	zards.			
Numerical measures of toxicity						
Acute toxicity estimates						
Product/ingredient name		Oral (mg/kg)	Dermal	Inhalation	Inhalation	Inhalation
			(mg/kg)	(gases) (ppm)	(vapors) (mg/l)	(dusts and mists) (mg/ I)
boric acid		2660	N/A	N/A	N/A	N/A
Section 12. Ecological in	formation					
Toxicity						
Product/ingredient name	Result		Sp	ecies		Exposure
boric acid	Acute LC50 84.28 mg/l N	larine water	Cru Juv	ustaceans - America venile (Fledgling, Ha		48 hours
	Acute LC50 133000 µg/l Acute LC50 100000 µg/l		Da Fis	eanling) phnia - Daphnia mae h - Ptychocheilus luo adaling Hatchling V	cius - Juvenile	48 hours 96 hours
	Chronic NOEC 6000 µg/l Chronic NOEC 2100 µg/l		Ďa	edgling, Hatchling, V phnia - Daphnia ma h - Oncorhynchus m	gna	21 days 87 days
Persistence and degradability						

Persistence and degradability

Not available.

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Bioaccumulative potential			
Product/ingredient name	LogPow	BCF	Potential
boric acid	-1.09	-	low
<u>Mobility in soil</u>			
Soil/water partition coefficient (K	Not available.		
Other adverse effects	No known signific	cant effects or critical hazards.	
Section 13. Disposal cor	nsiderations		
Disposal methods	product, solutions environmental pro requirements. Dis contractor. Waster requirements of a or landfill should of must be disposed Avoid dispersal of	f waste should be avoided or minimized w s and any by-products should at all times of otection and waste disposal legislation and spose of surplus and non-recyclable prod e should not be disposed of untreated to t authorities with jurisdiction. Waste pack only be considered when recycling is not f t of in a safe way. Empty containers or lin f spilled material and runoff and contact w	comply with the requirements of d any regional local authority ucts via a licensed waste disposal he sewer unless fully compliant with the kaging should be recycled. Incineration easible. This material and its container ers may retain some product residues.
RCRA classification	Not classified		
Section 14. Transport in Product is not regulated as dat		transport.	
Section 15. Regulatory in	nformation		
U.S. Federal regulations		Exempt/Partial exemption: Not determine (CWA) 311: sodium hydroxide	ed
Clean Air Act Section 112(b) Ha		ants Not listed	
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Not determined.

Inventory list United States

Not listed

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	6/4/2020
Date of issue/Date of revision	10/10/2019
Date of previous issue	1/26/2018
Version	7
	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.

