

# SAFETY DATA SHEET

**SIEMENS**

IMMULITE® 2000 and IMMULITE 2500 Probe Cleaning Kit.

SDS no.:

L2KPM

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product name** : IMMULITE® 2000 and IMMULITE 2500 Probe Cleaning Kit.  
**Product code** : L2KPM, 10385229

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

**Identified uses** Diagnostic agents.  
**Restrictions on use** For professional users only.

### 1.3 Details of the supplier of the safety data sheet

**Manufactured/supplied** : Siemens Healthcare Diagnostics Limited  
Sir William Siemens Square  
Newton House  
Camberley  
Frimley  
Surrey  
GU16 8QD  
UK

Phone: +44 (0) 1276 696000  
Fax: +44 (0)1276 696133

**e-mail address of person responsible for this SDS** : dx.msds.healthcare@siemens.com

### 1.4 Emergency telephone number

Poison Control:  
In England and Wales:  
NHS Direct – 0845 4647 or 111  
In Scotland: NHS 24 – 08454 24 24 24  
In the Republic of Ireland: 01 809 2166

CHEMTREC: 0870-8200418 (UK only)  
00 + 1 + 703-527-3887 (UK & Ireland)  
(International calls to the United Kingdom)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Probe Cleaning Solution Mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

**Probe Cleaning Solution**

Met. Corr. 1, H290

Skin Corr. 1, H314

Aquatic Acute 1, H400

Probe Cleaning Solution

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

**Date of issue/Date of revision**

: 4/6/2018

**Date of previous issue**

: 12/13/2016

**Version** : 1.01

1/17

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## SECTION 2: Hazards identification

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

#### Hazard pictograms

:



#### Signal word

: Probe Cleaning Solution

Danger

#### Hazard statements

: Probe Cleaning Solution

H290 - May be corrosive to metals.  
H314 - Causes severe skin burns and eye damage.  
H400 - Very toxic to aquatic life.

#### Precautionary statements

##### Prevention

: Probe Cleaning Solution

P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P273 - Avoid release to the environment.

##### Response

: Probe Cleaning Solution

P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician.  
P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.  
P303 + P361 + P353 + P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or physician.  
P305 + P310 - IF IN EYES: Immediately call a POISON CENTER or physician.

#### Storage

: Probe Cleaning Solution

Not applicable.

#### Disposal

: Probe Cleaning Solution

P501 - Dispose of contents and container in accordance with all local, regional, and national regulations.

#### Hazardous ingredients

: **Probe Cleaning Solution**  
sodium hypochlorite solution Cl active

#### Supplemental label elements

: Probe Cleaning Solution

Not applicable.

#### Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Probe Cleaning Solution

Not applicable.

### 2.3 Other hazards

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## SECTION 2: Hazards identification

<b>Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII</b>	: Probe Cleaning Solution Probe Cleaning Solution	Not applicable. P: Not available. B: Not available. T: Not available.
<b>Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</b>	: Probe Cleaning Solution Probe Cleaning Solution	Not applicable. vP: Not available. vB: Not available.
<b>Other hazards which do not result in classification</b>	: Probe Cleaning Solution	None known.
<b>Additional information</b>	: Not available. Not available.	

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Probe Cleaning Solution Mixture

Product/ingredient name	Identifiers	%	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]	Type
<b>Probe Cleaning Solution</b> sodium hypochlorite solution Cl active	EC: 231-668-3 CAS: 7681-52-9 Index: 017-011-00-1	<5	Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=10) EUH031 See Section 16 for the full text of the H statements declared above.	[1]

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

### Type

- [1] Substance classified with a health or environmental hazard  
 [2] Substance with a workplace exposure limit  
 [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII  
 [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII  
 [5] Substance of equivalent concern

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>Eye contact</b>	: Probe Cleaning Solution	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
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## SECTION 4: First aid measures

<b>Inhalation</b>	: Probe Cleaning Solution	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Skin contact</b>	: Probe Cleaning Solution	Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Ingestion</b>	: Probe Cleaning Solution	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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## SECTION 4: First aid measures

<b>Protection of first-aiders</b>	: Probe Cleaning Solution	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
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### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: Probe Cleaning Solution	Causes serious eye damage.
<b>Inhalation</b>	: Probe Cleaning Solution	No known significant effects or critical hazards.
<b>Skin contact</b>	: Probe Cleaning Solution	Causes severe burns.
<b>Ingestion</b>	: Probe Cleaning Solution	No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: Probe Cleaning Solution	Adverse symptoms may include the following: pain watering redness
<b>Inhalation</b>	: Probe Cleaning Solution	No specific data.
<b>Skin contact</b>	: Probe Cleaning Solution	Adverse symptoms may include the following: pain or irritation redness blistering may occur
<b>Ingestion</b>	: Probe Cleaning Solution	Adverse symptoms may include the following: stomach pains

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

<b>Notes to physician</b>	: Probe Cleaning Solution	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: Probe Cleaning Solution	No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: None known.

### 5.2 Special hazards arising from the substance or mixture

<b>Date of issue/Date of revision</b>	: 4/6/2018	<b>Date of previous issue</b>	: 12/13/2016	<b>Version</b>	: 1.01	5/17
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## SECTION 5: Firefighting measures

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
halogenated compounds  
metal oxide/oxides
- 5.3 Advice for firefighters**
- Special protective actions for fire-fighters** : Promptly 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 equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1 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 spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised 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".

### 6.2 Environmental precautions

- : Avoid dispersal of spilt 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### 6.3 Methods and material for containment 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. Approach the release from upwind. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

### 6.4 Reference to other sections

- : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- 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.

### 7.2 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. Store locked up. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

#### Seveso Directive - Reporting thresholds (in tonnes)

##### Named substances

Name	Notification and MAPP threshold	Safety report threshold
<b>Probe Cleaning Solution</b> Mixtures of sodium hypochlorite classified as Aquatic Acute Category 1 [H400] containing less than 5 % active chlorine and not classified under any of the other hazard categories in Part 1 of Annex I.	200	500

##### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
<b>Probe Cleaning Solution</b> E1: Hazardous to the aquatic environment - Acute 1 or Chronic 1	100	200

### 7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

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## SECTION 8: Exposure controls/personal protection

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### DNELs/DMELs

No DNELs/DMELs available.

### PNECs

No PNECs available

## 8.2 Exposure controls

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### 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: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

### 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Impervious gloves (e.g. butyl, nitrile, etc.) are recommended if skin contact is possible and for processing operations. Protective gloves must meet the standards in accordance with CEN EN374, ASTM F1001 or international equivalent.

**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.

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## SECTION 8: Exposure controls/personal protection

- 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.
- 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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	: Probe Cleaning Solution	Liquid.
<b>Colour</b>	: Probe Cleaning Solution	Colourless.
<b>Odour</b>	: Probe Cleaning Solution	Odourless.
<b>Odour threshold</b>	: Probe Cleaning Solution	Not relevant/applicable due to nature of the product.
<b>pH</b>	: Probe Cleaning Solution	12 to 12.5
<b>Melting point/freezing point</b>	: Probe Cleaning Solution	Not available.
<b>Initial boiling point and boiling range</b>	: Probe Cleaning Solution	Not available.
<b>Flash point</b>	: Probe Cleaning Solution	Not available.
<b>Evaporation rate</b>	: Probe Cleaning Solution	Not relevant/applicable due to nature of the product.
<b>Flammability (solid, gas)</b>	: Probe Cleaning Solution	Not relevant/applicable due to nature of the product.
<b>Upper/lower flammability or explosive limits</b>	: Probe Cleaning Solution	Not relevant/applicable due to nature of the product.
<b>Vapour pressure</b>	: Probe Cleaning Solution	Not relevant/applicable due to nature of the product.
<b>Vapour density</b>	: Probe Cleaning Solution	Not relevant/applicable due to nature of the product.
<b>Relative density</b>	: Probe Cleaning Solution	1
<b>Solubility(ies)</b>	: Probe Cleaning Solution	Not relevant/applicable due to nature of the product.
<b>Solubility in water</b>	: Probe Cleaning Solution	Not relevant/applicable due to nature of the product.
<b>Partition coefficient: n-octanol/ water</b>	: Not relevant/applicable due to nature of the product.	
<b>Auto-ignition temperature</b>	: Probe Cleaning Solution	Not relevant/applicable due to nature of the product.
<b>Decomposition temperature</b>	: Probe Cleaning Solution	Not relevant/applicable due to nature of the product.
<b>Viscosity</b>	: Not relevant/applicable due to nature of the product.	
<b>Explosive properties</b>	: Probe Cleaning Solution	Not relevant/applicable due to nature of the product.
<b>Oxidising properties</b>	: Not relevant/applicable due to nature of the product.	

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## SECTION 9: Physical and chemical properties

### 9.2 Other information

Not relevant/applicable due to nature of the product.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: Probe Cleaning Solution	No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: Probe Cleaning Solution	The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Probe Cleaning Solution	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: Probe Cleaning Solution	No specific data.
<b>10.5 Incompatible materials</b>	: Probe Cleaning Solution	Reactive or incompatible with the following materials: acids metals
<b>10.6 Hazardous decomposition products</b>	: Probe Cleaning Solution	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects


#### Acute toxicity

**Conclusion/Summary** : Probe Cleaning Solution Not available.

#### Acute toxicity estimates

Not available.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
 <b>Probe Cleaning Solution</b> sodium hypochlorite solution Cl active	Eyes - Mild irritant	Rabbit	-	1.31 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-

#### Conclusion/Summary

**Skin** : Probe Cleaning Solution Not available.

**Eyes** : Probe Cleaning Solution Not available.

**Respiratory** : Probe Cleaning Solution Not available.

#### Sensitisation

#### Conclusion/Summary

**Skin** : Probe Cleaning Solution Not available.

**Respiratory** : Probe Cleaning Solution Not available.

#### Mutagenicity

**Conclusion/Summary** : Probe Cleaning Solution Not available.

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## SECTION 11: Toxicological information

### Carcinogenicity

**Conclusion/Summary** : Probe Cleaning Solution Not available.

### Reproductive toxicity

**Conclusion/Summary** : Probe Cleaning Solution Not available.

### Teratogenicity

**Conclusion/Summary** : Probe Cleaning Solution Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on likely routes of exposure** : Probe Cleaning Solution Not available.

### Potential acute health effects

<b>Eye contact</b>	: Probe Cleaning Solution	Causes serious eye damage.
<b>Inhalation</b>	: Probe Cleaning Solution	No known significant effects or critical hazards.
<b>Skin contact</b>	: Probe Cleaning Solution	Causes severe burns.
<b>Ingestion</b>	: Probe Cleaning Solution	No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Eye contact</b>	: Probe Cleaning Solution	Adverse symptoms may include the following: pain watering redness
<b>Inhalation</b>	: Probe Cleaning Solution	No specific data.
<b>Skin contact</b>	: Probe Cleaning Solution	Adverse symptoms may include the following: pain or irritation redness blistering may occur
<b>Ingestion</b>	: Probe Cleaning Solution	Adverse symptoms may include the following: stomach pains

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

**Potential immediate effects** : Probe Cleaning Solution Not available.

**Potential delayed effects** : Probe Cleaning Solution Not available.

#### Long term exposure


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## SECTION 11: Toxicological information

<b>Potential immediate effects</b>	: Probe Cleaning Solution	Not available.
<b>Potential delayed effects</b>	: Probe Cleaning Solution	Not available.
<b><u>Potential chronic health effects</u></b>		
Not available.		
<b>Conclusion/Summary</b>	: Probe Cleaning Solution	Not available.
<b>General</b>	: Probe Cleaning Solution	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: Probe Cleaning Solution	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: Probe Cleaning Solution	No known significant effects or critical hazards.
<b>Teratogenicity</b>	: Probe Cleaning Solution	No known significant effects or critical hazards.
<b>Developmental effects</b>	: Probe Cleaning Solution	No known significant effects or critical hazards.
<b>Fertility effects</b>	: Probe Cleaning Solution	No known significant effects or critical hazards.
<b>Interactive effects</b>	: Probe Cleaning Solution	Not available.
<b><u>Toxicokinetics</u></b>		
<b>Absorption</b>	: Probe Cleaning Solution	Not available.
<b>Distribution</b>	: Probe Cleaning Solution	Not available.
<b>Metabolism</b>	: Probe Cleaning Solution	Not available.
<b>Elimination</b>	: Probe Cleaning Solution	Not available.
<b>Other information</b>	: Probe Cleaning Solution	Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
 <b>Probe Cleaning Solution</b> sodium hypochlorite solution Cl active	Acute EC50 0.67 mg/l Marine water	Algae - Phaeodactylum tricornutum - Exponential growth phase	96 hours
	Acute LC50 56400 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 32 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 32 µg/l Marine water	Fish - Oncorhynchus kisutch - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 0.5 mg/l Marine water	Algae - Isochrysis galbana - Exponential growth phase	96 hours
	Chronic NOEC 0.1 ppm Fresh water	Fish - Cyprinus carpio - Young	30 days

**Conclusion/Summary** : Probe Cleaning Solution Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** : Probe Cleaning Solution Not available.

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## SECTION 12: Ecological information

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

**Soil/water partition coefficient ( $K_{oc}$ )** : Probe Cleaning Solution Not available.

**Mobility** : Probe Cleaning Solution Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** : Probe Cleaning Solution Not applicable.

**vPvB** : Probe Cleaning Solution Not applicable.

**12.6 Other adverse effects** : Probe Cleaning Solution No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Probe Cleaning Solution The classification of the product may meet the criteria for a hazardous waste.

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

### ADR/RID

**14.1 UN number** Probe Cleaning Solution UN1791









**14.2 UN proper shipping name** Probe Cleaning Solution Hypochlorite solution

**14.3 Transport hazard class(es)** Probe Cleaning Solution 8





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## SECTION 14: Transport information

<b>14.4 Packing group</b>	Probe Cleaning Solution	III
<b>14.5 Environmental hazards</b>	 Probe Cleaning Solution	No.
<b>Additional information</b>	 Probe Cleaning Solution	-
<b>ADN</b>		
<b>14.1 UN number</b>	Probe Cleaning Solution	UN1791
<b>14.2 UN proper shipping name</b>	Probe Cleaning Solution	Hypochlorite solution
<b>14.3 Transport hazard class(es)</b>	Probe Cleaning Solution	8
		
<b>14.4 Packing group</b>	Probe Cleaning Solution	III
<b>14.5 Environmental hazards</b>	 Probe Cleaning Solution	No.
<b>Additional information</b>	 Probe Cleaning Solution	-
<b>IMDG</b>		
<b>14.1 UN number</b>	Probe Cleaning Solution	UN1791
<b>14.2 UN proper shipping name</b>	Probe Cleaning Solution	Hypochlorite solution
<b>14.3 Transport hazard class(es)</b>	Probe Cleaning Solution	8
		
<b>14.4 Packing group</b>	Probe Cleaning Solution	III
<b>14.5 Environmental hazards</b>	 Probe Cleaning Solution	No.
<b>Additional information</b>	 Probe Cleaning Solution	-
<b>IATA</b>		
<b>14.1 UN number</b>	Probe Cleaning Solution	UN1791
<b>14.2 UN proper shipping name</b>	Probe Cleaning Solution	Hypochlorite solution

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## SECTION 14: Transport information

<b>14.3 Transport hazard class(es)</b>	Probe Cleaning Solution	8
		
<b>14.4 Packing group</b>	Probe Cleaning Solution	III
<b>14.5 Environmental hazards</b>	Probe Cleaning Solution	No.
<b>Additional information</b>	 Probe Cleaning Solution	-
<b>14.6 Special precautions for user</b>	<p><b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.</p>	
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.	

Notes : A “-” = not applicable.

## SECTION 15: Regulatory information

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

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorisation

###### Annex XIV

None of the components are listed.

###### Substances of very high concern

None of the components are listed.

<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: Probe Cleaning Solution	Not applicable.
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##### Other EU regulations

<b>Europe inventory</b>	: Probe Cleaning Solution	Not determined.
<b>Black List Chemicals (76/464/EEC)</b>	: Probe Cleaning Solution	Not listed
<b>Industrial emissions (integrated pollution prevention and control) - Air</b>	: Probe Cleaning Solution	Not listed

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## SECTION 15: Regulatory information

**Industrial emissions** : Probe Cleaning Solution Not listed  
(integrated pollution prevention and control) -  
Water

### Ozone depleting substances (1005/2009/EU)

Not listed.

### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

### Seveso Directive

Probe Cleaning Solution

This product is controlled under the Seveso Directive.

### Named substances

#### **Name**

#### **Probe Cleaning Solution**

Mixtures of sodium hypochlorite classified as Aquatic Acute Category 1 [H400] containing less than 5 % active chlorine and not classified under any of the other hazard categories in Part 1 of Annex I.

### Danger criteria

#### **Category**

#### **Probe Cleaning Solution**

E1: Hazardous to the aquatic environment - Acute 1 or Chronic 1

### International regulations

**15.2 Chemical safety assessment** : Not applicable.

## SECTION 16: Other information

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number  
vPvB = Very Persistent and Very Bioaccumulative  
ASTM = American Society of Testing Materials  
CEN = European Committee on Standardization  
ECHA = European Chemicals Agency  
RTECS = Registry of Toxic Effects of Chemical Substances

**Key literature references and sources for data** : This SDS was prepared on the basis of sheets of individual components, literature data, online databases (e.g. ECHA, RTECS) as well as our knowledge and experience, taking into account current legislation.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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## SECTION 16: Other information

Classification	Justification
<b>Probe Cleaning Solution</b> Met. Corr. 1, H290 Skin Corr. 1, H314 Aquatic Acute 1, H400	On basis of test data On basis of test data Calculation method

### Full text of abbreviated H statements

<b>Probe Cleaning Solution</b> H290 H314 H400	May be corrosive to metals. Causes severe skin burns and eye damage. Very toxic to aquatic life.
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### Full text of classifications [CLP/GHS]

<b>Probe Cleaning Solution</b> Aquatic Acute 1, H400 EUH031 Met. Corr. 1, H290 Skin Corr. 1, H314 Skin Corr. 1B, H314	ACUTE AQUATIC HAZARD - Category 1 Contact with acids liberates toxic gas. CORROSIVE TO METALS - Category 1 SKIN CORROSION/IRRITATION - Category 1 SKIN CORROSION/IRRITATION - Category 1B
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**Training advice** : Provide workers with adequate training to assure that chemicals are handled safely in accordance with national and community legislation.

**Date of printing** : 4/6/2018

**Date of issue/ Date of revision** : 4/6/2018

**Date of previous issue** : 12/13/2016

**Version** : 1.01

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.