

# SAFETY DATA SHEET



## FISH Hybridization Buffer and Mounting Buffer with DAPI

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

#### 1.1 Product identifier

**Product name** : FISH Hybridization Buffer and Mounting Buffer with DAPI  
**Part No. (Kit)** : G9405A, G9406A  
**Part No.** : FISH Hybridization Buffer G9400-60000  
FISH Mounting Buffer G9404-60000  
with DAPI

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

Identified uses	
Analytical reagent.	
FISH Hybridization Buffer	0.1 ml
FISH Mounting Buffer with DAPI	0.1 ml

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

Agilent Technologies Manufacturing GmbH & Co. KG  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany  
0800 603 1000

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

#### 1.4 Emergency telephone number

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(44)-870-8200418

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** : FISH Hybridization Buffer Mixture  
FISH Mounting Buffer Mixture  
with DAPI

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

**FISH Hybridization Buffer**  
H360D TOXIC TO REPRODUCTION (Unborn child) - Category 1B

**Ingredients of unknown toxicity** : FISH Hybridization Buffer Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 4.4%  
FISH Mounting Buffer with DAPI Not applicable.

**Ingredients of unknown ecotoxicity** : FISH Hybridization Buffer Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 14.4%  
FISH Mounting Buffer with DAPI Not applicable.

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

**Date of issue/Date of revision** : 29/02/2016

**FISH Hybridization Buffer and Mounting Buffer with DAPI**

**SECTION 2: Hazards identification**

**Hazard pictograms** :



**Signal word** : FISH Hybridization Buffer Danger  
 FISH Mounting Buffer with DAPI No signal word.

**Hazard statements** : FISH Hybridization Buffer **GHS08** -  
 May damage the unborn child.  
 FISH Mounting Buffer with DAPI No known significant effects or critical hazards.

**Precautionary statements**

**Prevention** : FISH Hybridization Buffer P201 - Obtain special instructions before use.  
 P280 - Wear protective gloves. Wear eye or face protection.  
 Wear protective clothing.  
 FISH Mounting Buffer with DAPI Not applicable.

**Response** : FISH Hybridization Buffer P308 + P313 - IF exposed or concerned: Get medical attention.  
 FISH Mounting Buffer with DAPI Not applicable.

**Storage** : FISH Hybridization Buffer P405 - Store locked up.  
 FISH Mounting Buffer with DAPI Not applicable.

**Disposal** : FISH Hybridization Buffer P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.  
 FISH Mounting Buffer with DAPI Not applicable.

**Hazardous ingredients** : **FISH Hybridization Buffer**  
 Formamide

**Supplemental label elements** : FISH Hybridization Buffer Not applicable.  
 FISH Mounting Buffer with DAPI Contains p-phenylenediamine. May produce an allergic reaction. Safety data sheet available on request.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : FISH Hybridization Buffer Restricted to professional users.  
 FISH Mounting Buffer with DAPI Not applicable.

**Special packaging requirements**

**Tactile warning of danger** : FISH Hybridization Buffer Not applicable.  
 FISH Mounting Buffer with DAPI Not applicable.

**2.3 Other hazards**

**Other hazards which do not result in classification** : FISH Hybridization Buffer None known.  
 FISH Mounting Buffer with DAPI None known.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures** : FISH Hybridization Buffer Mixture  
 FISH Mounting Buffer with DAPI Mixture

**FISH Hybridization Buffer and Mounting Buffer with DAPI**

**SECTION 3: Composition/information on ingredients**

Product/ingredient name	Identifiers	%	Classification	Type
<b>FISH Hybridization Buffer</b> Formamide	EC: 200-842-0 CAS: 75-12-7 Index: 616-052-00-8	≥50 - ≤75	Repr. 1B, H360D (Unborn child)	[1] [2]
Sodium chloride	EC: 231-598-3 CAS: 7647-14-5	<10	Eye Irrit. 2, H319	[1]
<b>FISH Mounting Buffer with DAPI</b> Glycerol	EC: 200-289-5 CAS: 56-81-5	≥90	Not classified.  <b>See Section 16 for the full text of the H statements declared above.</b>	[2]

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.

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

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

<b>Eye contact</b>	: FISH Hybridization Buffer	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. Get medical attention if irritation occurs.
	FISH Mounting Buffer with DAPI	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.
<b>Inhalation</b>	: FISH Hybridization Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	FISH Mounting Buffer with DAPI	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin contact</b>	: FISH Hybridization Buffer	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. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	FISH Mounting Buffer with DAPI	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**SECTION 4: First aid measures**

<b>Ingestion</b>	: FISH Hybridization Buffer	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. Get medical attention. 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.
	FISH Mounting Buffer with DAPI	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.
<b>Protection of first-aiders</b>	: FISH Hybridization Buffer	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.
	FISH Mounting Buffer with DAPI	No action shall be taken involving any personal risk or without suitable training.

**4.2 Most important symptoms and effects, both acute and delayed**

Potential acute health effects

<b>Eye contact</b>	: FISH Hybridization Buffer FISH Mounting Buffer with DAPI	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Inhalation</b>	: FISH Hybridization Buffer FISH Mounting Buffer with DAPI	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Skin contact</b>	: FISH Hybridization Buffer FISH Mounting Buffer with DAPI	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Ingestion</b>	: FISH Hybridization Buffer FISH Mounting Buffer with DAPI	No known significant effects or critical hazards. No known significant effects or critical hazards.

Over-exposure signs/symptoms

<b>Eye contact</b>	: FISH Hybridization Buffer FISH Mounting Buffer with DAPI	No specific data. No specific data.
<b>Inhalation</b>	: FISH Hybridization Buffer  FISH Mounting Buffer with DAPI	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations No specific data.
<b>Skin contact</b>	: FISH Hybridization Buffer  FISH Mounting Buffer with DAPI	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations No specific data.

**FISH Hybridization Buffer and Mounting Buffer with DAPI**

**SECTION 4: First aid measures**

**Ingestion** : FISH Hybridization Buffer Adverse symptoms may include the following:  
 reduced foetal weight  
 increase in foetal deaths  
 skeletal malformations  
 FISH Mounting Buffer with DAPI No specific data.

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

**Notes to physician** : FISH Hybridization Buffer In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.  
 FISH Mounting Buffer with DAPI Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : FISH Hybridization Buffer No specific treatment.  
 FISH Mounting Buffer with DAPI No specific treatment.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media** : FISH Hybridization Buffer Use an extinguishing agent suitable for the surrounding fire.  
 FISH Mounting Buffer with DAPI Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : FISH Hybridization Buffer None known.  
 FISH Mounting Buffer with DAPI None known.

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

**Hazards from the substance or mixture** : FISH Hybridization Buffer In a fire or if heated, a pressure increase will occur and the container may burst.  
 FISH Mounting Buffer with DAPI In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion products** : FISH Hybridization Buffer Decomposition products may include the following materials:  
 carbon dioxide  
 carbon monoxide  
 nitrogen oxides  
 sulfur oxides  
 halogenated compounds  
 metal oxide/oxides  
 FISH Mounting Buffer with DAPI Decomposition products may include the following materials:  
 carbon dioxide  
 carbon monoxide

**5.3 Advice for firefighters**

**Special precautions for fire-fighters** : FISH Hybridization Buffer 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.  
 FISH Mounting Buffer with DAPI 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** : FISH Hybridization Buffer 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.  
 FISH Mounting Buffer with DAPI 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)

## SECTION 5: Firefighting measures

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

<b>For non-emergency personnel</b>	: FISH Hybridization Buffer	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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	FISH Mounting Buffer with DAPI	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.
<b>For emergency responders</b>	: FISH Hybridization Buffer	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".
	FISH Mounting Buffer with DAPI	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

: FISH Hybridization Buffer	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).
FISH Mounting Buffer with DAPI	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).

### 6.3 Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	: FISH Hybridization Buffer	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.
	FISH Mounting Buffer with DAPI	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.

### 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

<b>Protective measures</b>	: FISH Hybridization Buffer	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. If during normal use the material presents a respiratory hazard, use only with
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**FISH Hybridization Buffer and Mounting Buffer with DAPI**

**SECTION 7: Handling and storage**

<p><b>Advice on general occupational hygiene</b></p>	<p>FISH Mounting Buffer with DAPI</p> <p>: FISH Hybridization Buffer</p> <p>FISH Mounting Buffer with DAPI</p>	<p>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.</p> <p>Put on appropriate personal protective equipment (see Section 8).</p> <p>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.</p> <p>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.</p>
<p><b>7.2 Conditions for safe storage, including any incompatibilities</b></p>	<p>: FISH Hybridization Buffer</p> <p>FISH Mounting Buffer with DAPI</p>	<p>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.</p> <p>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 unlabelled containers. Use appropriate containment to avoid environmental contamination.</p>
<p><b>7.3 Specific end use(s)</b></p> <p><b>Recommendations</b></p>	<p>: FISH Hybridization Buffer</p> <p>FISH Mounting Buffer with DAPI</p>	<p>Industrial applications, Professional applications.</p> <p>Industrial applications, Professional applications.</p>
<p><b>Industrial sector specific solutions</b></p>	<p>: FISH Hybridization Buffer</p> <p>FISH Mounting Buffer with DAPI</p>	<p>Not applicable.</p> <p>Not applicable.</p>

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

Occupational exposure limits

Product/ingredient name	Exposure limit values
<p><b>FISH Hybridization Buffer</b> Formamide</p>	<p><b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b>                      STEL: 56 mg/m<sup>3</sup> 15 minutes.                      STEL: 30 ppm 15 minutes.                      TWA: 37 mg/m<sup>3</sup> 8 hours.                      TWA: 20 ppm 8 hours.</p>
<p><b>FISH Mounting Buffer with DAPI</b> Glycerol</p>	<p><b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b></p>

**SECTION 8: Exposure controls/personal protection**TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Mist

**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: 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. 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.

**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.

**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>	: FISH Hybridization Buffer	Liquid.
	: FISH Mounting Buffer with DAPI	Liquid.
<b>Colour</b>	: FISH Hybridization Buffer	Not available.
	: FISH Mounting Buffer with DAPI	Not available.
<b>Odour</b>	: FISH Hybridization Buffer	Not available.
	: FISH Mounting Buffer with DAPI	Not available.
<b>Odour threshold</b>	: FISH Hybridization Buffer	Not available.
	: FISH Mounting Buffer with DAPI	Not available.
<b>pH</b>	: FISH Hybridization Buffer	Not available.
	: FISH Mounting Buffer with DAPI	7.5 to 8
<b>Melting point/freezing point</b>	: FISH Hybridization Buffer	Not available.
	: FISH Mounting Buffer with DAPI	Not available.
<b>Initial boiling point and boiling range</b>	: FISH Hybridization Buffer	Not available.
	: FISH Mounting Buffer with DAPI	Not available.
<b>Flash point</b>	: FISH Hybridization Buffer	Not available.
	: FISH Mounting Buffer with DAPI	Not available.
<b>Evaporation rate</b>	: FISH Hybridization Buffer	Not available.
	: FISH Mounting Buffer with DAPI	Not available.
<b>Flammability (solid, gas)</b>	: FISH Hybridization Buffer	Not applicable.
	: FISH Mounting Buffer with DAPI	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	: FISH Hybridization Buffer	Not available.
	: FISH Mounting Buffer with DAPI	Not available.
<b>Vapour pressure</b>	: FISH Hybridization Buffer	Not available.
	: FISH Mounting Buffer with DAPI	Not available.
<b>Vapour density</b>	: FISH Hybridization Buffer	Not available.
	: FISH Mounting Buffer with DAPI	Not available.
<b>Relative density</b>	: FISH Hybridization Buffer	Not available.
	: FISH Mounting Buffer with DAPI	Not available.

## SECTION 9: Physical and chemical properties

<b>Solubility(ies)</b>	: FISH Hybridization Buffer FISH Mounting Buffer with DAPI	Easily soluble in the following materials: cold water and hot water. Not available.
<b>Partition coefficient: n-octanol/water</b>	: FISH Hybridization Buffer FISH Mounting Buffer with DAPI	Not available. Not available.
<b>Auto-ignition temperature</b>	: FISH Hybridization Buffer FISH Mounting Buffer with DAPI	Not available. Not available.
<b>Decomposition temperature</b>	: FISH Hybridization Buffer FISH Mounting Buffer with DAPI	Not available. Not available.
<b>Viscosity</b>	: FISH Hybridization Buffer FISH Mounting Buffer with DAPI	Not available. Not available.
<b>Explosive properties</b>	: FISH Hybridization Buffer FISH Mounting Buffer with DAPI	Not available. Not available.
<b>Oxidising properties</b>	: FISH Hybridization Buffer FISH Mounting Buffer with DAPI	Not available. Not available.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: FISH Hybridization Buffer FISH Mounting Buffer with DAPI	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: FISH Hybridization Buffer FISH Mounting Buffer with DAPI	The product is stable. The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: FISH Hybridization Buffer FISH Mounting Buffer with DAPI	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: FISH Hybridization Buffer FISH Mounting Buffer with DAPI	No specific data. No specific data.
<b>10.5 Incompatible materials</b>	: FISH Hybridization Buffer FISH Mounting Buffer with DAPI	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
<b>10.6 Hazardous decomposition products</b>	: FISH Hybridization Buffer FISH Mounting Buffer with DAPI	Under normal conditions of storage and use, hazardous decomposition products should not be produced. 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

Product/ingredient name	Result	Species	Dose	Exposure
<b>FISH Hybridization Buffer</b>				
Formamide	LD50 Dermal	Rabbit	17 g/kg	-
	LD50 Oral	Rat	4000 mg/kg	-
Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-

Acute toxicity estimates

Route	ATE value
<b>FISH Mounting Buffer with DAPI</b>	
Oral	80070.4 mg/kg
Dermal	300264 mg/kg
Inhalation (dusts and mists)	920.8 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>FISH Hybridization Buffer</b>					
Formamide	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitiser

**Conclusion/Summary** : Not available.

Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity

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** : FISH Hybridization Buffer Routes of entry anticipated: Oral, Dermal, Inhalation.  
 FISH Mounting Buffer with DAPI Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

**Inhalation** : FISH Hybridization Buffer No known significant effects or critical hazards.  
 FISH Mounting Buffer with DAPI No known significant effects or critical hazards.

**Ingestion** : FISH Hybridization Buffer No known significant effects or critical hazards.  
 FISH Mounting Buffer with DAPI No known significant effects or critical hazards.

**Skin contact** : FISH Hybridization Buffer No known significant effects or critical hazards.  
 FISH Mounting Buffer with DAPI No known significant effects or critical hazards.

**Eye contact** : FISH Hybridization Buffer No known significant effects or critical hazards.  
 FISH Mounting Buffer with DAPI No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

**SECTION 11: Toxicological information**

<b>Inhalation</b>	: FISH Hybridization Buffer	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
	FISH Mounting Buffer with DAPI	No specific data.
<b>Ingestion</b>	: FISH Hybridization Buffer	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
	FISH Mounting Buffer with DAPI	No specific data.
<b>Skin contact</b>	: FISH Hybridization Buffer	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
	FISH Mounting Buffer with DAPI	No specific data.
<b>Eye contact</b>	: FISH Hybridization Buffer	No specific data.
	FISH Mounting Buffer with DAPI	No specific data.

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

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Long term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Potential chronic health effects**

<b>General</b>	: FISH Hybridization Buffer	No known significant effects or critical hazards.
	FISH Mounting Buffer with DAPI	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: FISH Hybridization Buffer	No known significant effects or critical hazards.
	FISH Mounting Buffer with DAPI	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: FISH Hybridization Buffer	No known significant effects or critical hazards.
	FISH Mounting Buffer with DAPI	No known significant effects or critical hazards.
<b>Teratogenicity</b>	: FISH Hybridization Buffer	May damage the unborn child.
	FISH Mounting Buffer with DAPI	No known significant effects or critical hazards.
<b>Developmental effects</b>	: FISH Hybridization Buffer	No known significant effects or critical hazards.
	FISH Mounting Buffer with DAPI	No known significant effects or critical hazards.
<b>Fertility effects</b>	: FISH Hybridization Buffer	No known significant effects or critical hazards.
	FISH Mounting Buffer with DAPI	No known significant effects or critical hazards.

**SECTION 12: Ecological information****12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
FISH Hybridization Buffer Sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 28.85 mg/dm <sup>3</sup> Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1661 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks

**12.2 Persistence and degradability**

Not available.

**12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
FISH Hybridization Buffer Formamide	-0.82	-	low

**12.4 Mobility in soil**Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

Mobility : Not available.

**12.5 Results of PBT and vPvB assessment**

PBT : Not applicable.

vPvB : Not applicable.

**12.6 Other adverse effects** : 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** : 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.

**FISH Hybridization Buffer and Mounting Buffer with DAPI**

**SECTION 13: Disposal considerations**

**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**

**Regulatory information**

**ADR/RID / IMDG / IATA** : Not regulated.

**14.6 Special precautions for user** : **Transport within user's premises:** 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.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** : Not available.

**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**

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
FISH Hybridization Buffer Formamide	Toxic to reproduction	Candidate	ED/87/2012	6/18/2012

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : FISH Hybridization Buffer Restricted to professional users.  
FISH Mounting Buffer with DAPI Not applicable.

**Other EU regulations**

**Europe inventory** : All components are listed or exempted.

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
FISH Hybridization Buffer formamide	-	-	Repr. 1B, H360D (Unborn child)	-

**Seveso Directive**

This product is not controlled under the Seveso Directive.

**National regulations**

**International regulations**

**Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

**Montreal Protocol (Annexes A, B, C, E)**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants**

Not listed.



## SECTION 15: Regulatory information

### Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### International lists

#### National inventory

<b>Australia</b>	: Not determined.
<b>Canada</b>	: Not determined.
<b>China</b>	: All components are listed or exempted.
<b>Japan</b>	: <b>Japan inventory (ENCS)</b> : Not determined. <b>Japan inventory (ISHL)</b> : Not determined.
<b>Malaysia</b>	: Not determined.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: Not determined.

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments might still be required.

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number

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

Classification	Justification
<b>FISH Hybridization Buffer</b> Repr. 1B, H360D (Unborn child)	Calculation method

**Full text of abbreviated H statements** : **FISH Hybridization Buffer**  
H319 Causes serious eye irritation.  
H360D (Unborn child) May damage the unborn child.

**Full text of classifications [CLP/GHS]** : **FISH Hybridization Buffer**  
Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2  
Repr. 1B, H360D TOXIC TO REPRODUCTION (Unborn child) - Category 1B  
(Unborn child)

**Date of issue/ Date of revision** : 29/02/2016

**Date of previous issue** : No previous validation.

**Version** : 1

### Notice to reader

## **SECTION 16: Other information**

**Disclaimer:** The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.