Conforms to Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals

SAFETY DATA SHEET

Agilent Technologies

FISH Hybridization Buffer and Mounting Buffer with DAPI

Section 1. Identification

Product identifier : FISH Hybridization Buffer and Mounting Buffer with DAPI

Part No. (Chemical Kit) : G9405A, G9406A

Part No. :

FISH Hybridization Buffer	G9400-60000
FISH Mounting Buffer with DAPI	G9404-60000

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

Analytical reagent.

FISH Hybridization Buffer	0.1 ml
FISH Mounting Buffer with DAPI	0.1 ml

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
679 Springvale Road
Mulgrave
Victoria 3170, Australia
1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: (61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

FISH Hybridization Buffer

H360 TOXIC TO REPRODUCTION (Unborn child) - Category 1B

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

GHS label elements

Hazard pictograms :

Signal word :

FISH Hybridization Buffer	DANGER
FISH Mounting Buffer with DAPI	No signal word.

Hazard statements :

FISH Hybridization Buffer	H360 - May damage the unborn child.
FISH Mounting Buffer with DAPI	No known significant effects or critical hazards.

Precautionary statements

Section 2. Hazard(s) identification

Prevention	:	FISH Hybridization Buffer	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P281 - Use personal protective equipment as required.
		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.
Supplemental label elements	:	FISH Hybridization Buffer	Not applicable.
		FISH Mounting Buffer with DAPI	Not applicable.
Other hazards which do not result in classification	:	FISH Hybridization Buffer	None known.
		FISH Mounting Buffer with DAPI	None known.

Section 3. Composition and ingredient information

Substance/mixture	:	FISH Hybridization Buffer	Mixture
		FISH Mounting Buffer with DAPI	Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
FISH Hybridization Buffer		
Formamide	≥30 - ≤60	75-12-7
FISH Mounting Buffer with DAPI		
Glycerol	≥90	56-81-5

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 aid measures

Eye contact	:	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.

Section 4. First aid measures

Inhalation

: 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.

Skin contact

: 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.

Ingestion

: 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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

: FISH Hybridization Buffer — No known significant effects or critical hazards.

FISH Mounting Buffer with DAPI — No known significant effects or critical hazards.

Inhalation

: 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.

Section 4. First aid measures

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

Over-exposure signs/symptoms

Eye contact	:	FISH Hybridization Buffer	No specific data.
		FISH Mounting Buffer with DAPI	No specific data.
Inhalation	:	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.
Skin contact	:	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.
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.

Indication of immediate medical attention and special treatment needed, if necessary

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.
Protection of first-aiders	:	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.

See toxicological information (Section 11)

Section 5. Firefighting measures

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.

Section 5. Firefighting measures

Specific hazards arising from the chemical

: 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 thermal decomposition 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

Special protective actions 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.

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.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: 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 spilt 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 spilt material. Put on appropriate personal protective equipment.

For emergency responders

: 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".

Section 6. Accidental release measures

Environmental precautions :

FISH Hybridization Buffer: 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).

FISH Mounting Buffer with DAPI: 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).

Methods and material for containment and cleaning up

Methods for cleaning up :

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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures :

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 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.

FISH Mounting Buffer with DAPI: Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene :

FISH Hybridization Buffer: 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.

FISH Mounting Buffer with DAPI: 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.

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities :

FISH Hybridization Buffer	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.
FISH Mounting Buffer with DAPI	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.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
FISH Hybridization Buffer Formamide	**Safe Work Australia (Australia, 1/2014). Absorbed through skin.** TWA: 18 mg/m³ 8 hours. TWA: 10 ppm 8 hours.
FISH Mounting Buffer with DAPI Glycerol	**Safe Work Australia (Australia, 1/2014).** TWA: 10 mg/m³ 8 hours.

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.

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

Section 8. Exposure controls and personal 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.

Section 9. Physical and chemical properties

Appearance

Physical state	:	FISH Hybridization Buffer	Liquid.
		FISH Mounting Buffer with DAPI	Liquid.
Colour	:	FISH Hybridization Buffer	Not available.
		FISH Mounting Buffer with DAPI	Not available.
Odour	:	FISH Hybridization Buffer	Not available.
		FISH Mounting Buffer with DAPI	Not available.
Odour threshold	:	FISH Hybridization Buffer	Not available.
		FISH Mounting Buffer with DAPI	Not available.
pH	:	FISH Hybridization Buffer	Not available.
		FISH Mounting Buffer with DAPI	7.5 to 8
Melting point	:	FISH Hybridization Buffer	Not available.
		FISH Mounting Buffer with DAPI	Not available.
Boiling point	:	FISH Hybridization Buffer	Not available.
		FISH Mounting Buffer with DAPI	Not available.
Flash point	:	FISH Hybridization Buffer	Not available.
		FISH Mounting Buffer with DAPI	Not available.
Evaporation rate	:	FISH Hybridization Buffer	Not available.
		FISH Mounting Buffer with DAPI	Not available.
Flammability (solid, gas)	:	FISH Hybridization Buffer	Not applicable.
		FISH Mounting Buffer with DAPI	Not applicable.
Lower and upper explosive (flammable) limits	:	FISH Hybridization Buffer	Not available.
		FISH Mounting Buffer with DAPI	Not available.
Vapour pressure	:	FISH Hybridization Buffer	Not available.
		FISH Mounting Buffer with DAPI	Not available.
Vapour density	:		

Section 9. Physical and chemical properties

		FISH Hybridization Buffer	Not available.
		FISH Mounting Buffer with DAPI	Not available.
Relative density	:	FISH Hybridization Buffer	Not available.
		FISH Mounting Buffer with DAPI	Not available.
Solubility	:	FISH Hybridization Buffer	Easily soluble in the following materials: cold water and hot water.
		FISH Mounting Buffer with DAPI	Not available.
Partition coefficient: n-octanol/water	:	FISH Hybridization Buffer	Not available.
		FISH Mounting Buffer with DAPI	Not available.
Auto-ignition temperature	:	FISH Hybridization Buffer	Not available.
		FISH Mounting Buffer with DAPI	Not available.
Decomposition temperature	:	FISH Hybridization Buffer	Not available.
		FISH Mounting Buffer with DAPI	Not available.
Viscosity	:	FISH Hybridization Buffer	Not available.
		FISH Mounting Buffer with DAPI	Not available.

Section 10. Stability and reactivity

Reactivity	:	FISH Hybridization Buffer	No specific test data related to reactivity available for this product or its ingredients.
		FISH Mounting Buffer with DAPI	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	FISH Hybridization Buffer	The product is stable.
		FISH Mounting Buffer with DAPI	The product is stable.
Possibility of hazardous reactions	:	FISH Hybridization Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
		FISH Mounting Buffer with DAPI	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	FISH Hybridization Buffer	No specific data.
		FISH Mounting Buffer with DAPI	No specific data.
Incompatible materials	:	FISH Hybridization Buffer	May react or be incompatible with oxidising materials.
		FISH Mounting Buffer with DAPI	May react or be incompatible with oxidising materials.
Hazardous decomposition products	:	FISH Hybridization Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		FISH Mounting Buffer with DAPI	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	Result	Species	Dose	Exposure
FISH Hybridization Buffer				
Formamide	LD50 Dermal	Rabbit	17 g/kg	-
	LD50 Oral	Rat	4000 mg/kg	-
FISH Mounting Buffer with DAPI				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
FISH Hybridization Buffer					
Formamide	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
FISH Mounting Buffer with DAPI					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitisation

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

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

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

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

Section 11. Toxicological information

Skin contact	:	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.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	FISH Hybridization Buffer	No specific data.
		FISH Mounting Buffer with DAPI	No specific data.
Inhalation	:	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.
Skin contact	:	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.
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.

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

Not available.

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

Section 11. Toxicological information

Fertility effects : FISH Hybridization Buffer — No known significant effects or critical hazards.
FISH Mounting Buffer with DAPI — No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
FISH Mounting Buffer with DAPI Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
FISH Hybridization Buffer Formamide	-0.82	-	low
FISH Mounting Buffer with DAPI Glycerol	-1.76	-	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code .

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.

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

Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons

6, 5

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

Australia inventory (AICS) : Not determined.

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.

Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

National inventory

Canada : Not determined.

China : All components are listed or exempted.

Europe : All components are listed or exempted.

Japan : **Japan inventory (ENCS)**: Not determined.
Japan inventory (ISHL): Not determined.

Malaysia : Not determined.

New Zealand : All components are listed or exempted.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Turkey : Not determined.

United States : Not determined.

Section 16. Any other relevant information

History

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

Date of previous issue : 23/05/2014.

Version : 3

Key to abbreviations : ADG = Australian Dangerous Goods
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate 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)
NOHSC = National Occupational Health and Safety Commission
SUSMP = Standard Uniform Schedule of Medicine and Poisons
UN = United Nations

Procedure used to derive the classification

Classification	Justification
FISH Hybridization Buffer Repr. 1B, H360 (Unborn child)	Calculation method

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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