

SAFETY DATA SHEET (SDS)

FISH Wash Buffer 1

Pub No.: M223

Rev.: 05/23/2016

SECTION 1: IDENTIFICATION

PRODUCT NAME: FISH Wash Buffer 1
PART NO: 2010-00-1
MANUFACTURER: SciGene Corporation
 1287 Reamwood Avenue
 Sunnyvale, CA 94089 USA
EMERGENCY PHONE: Poison Control
 In U.S. 800-222-1222
 Outside U.S. Contact your local poison control center

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200

Emergency Overview

OSHA Hazards: Irritant
GHS Classification: Acute toxicity (Category 5)
 Serious eye damage (Category 1)

GHS Label elements, including precautionary statements

Pictogram:



Signal word: Danger
Hazard statements: H303 May be harmful if swallowed
 H318 Causes serious eye damage

HMIS Classification

Health hazard: 2
Flammability: 0
Physical hazards: 0

NFPA Rating

Health hazard: 2
Fire: 0
Reactivity Hazard: 0

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Skin: May be harmful if absorbed through skin. Causes skin irritation.
Eyes: Causes eye irritation.
Ingestion: May be harmful if swallowed.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

NAME	CAS NO	%
α -[(1,1,3,3-Tetramethylbutyl)phenyl]- ω -hydroxy-poly(oxy-1,2-ethanediyl)	9036-19-5	0.3
0.4 X Saline Sodium Citrate	—	99.7%

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

SECTION 4: FIRST AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact: Wash off with soap and plenty of water. Consult a physician.
In case of eye contact: Flush eyes with water as a precaution.
If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

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SECTION 5: FIRE-FIGHTING MEASURES

Flammability:	Not flammable or combustible
Products of combustion:	Carbon oxides
Suitable Extinguishing Media:	Regular dry chemical, carbon dioxide, water spray, regular foam
Protective Equipment:	Wear self contained breathing apparatus (SCBA) for fire fighting if necessary.
Sensitivity to Mechanical Impact:	Not sensitive
Sensitivity to Static Discharge:	No

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use personal protective equipment. Avoid breathing vapors or mist. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental precautions:	Do not let product enter drains.
Methods and materials for containment and clean up:	Soak up with inert absorbent material. Collect spilled material in appropriate container for disposal.

SECTION 7: HANDLING AND STORAGE

Handling:	Avoid breathing vapors. Wash thoroughly after handling.
Storage:	Store in accordance with local regulations. Keep container closed.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practices. Wash hands, forearms, and face thoroughly after handling chemical products.
Skin and body protection:	Personal protective equipment for the skin and body should be selected based on the task being performed and should be approved by a specialist before handling this product.
Eyes:	Goggles or safety glasses with eyeshields approved to an appropriate government standard.
Hands:	Handle with chemical resistant protective gloves.
Respiratory:	Emmissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, the use of fume scrubbers, filters, or properly fitted, air-purifying or air-fed respirators may be necessary.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid
Color:	Colorless
Physical state:	Liquid
pH:	Neutral
Boiling/condensation point:	N/A
Melting /freezing point:	N/A
Solubility:	Soluble in water
Odor:	none
Viscosity:	N/A
Explosion limits:	N/A
Flash point:	N/A
Density:	N/A
Flammability:	Non-flammable

SECTION 10: STABILITY AND REACTIVITY

Stability and reactivity:	Stable under normal conditions.
Conditions to avoid:	No data available.
Incompatibility with various substances:	Strong oxidizing agents.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide.
Hazardous Polymerization:	Will not occur under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

LD50 not established for this Product	
Acute toxicity:	no data available
Other information on acute toxicity:	
Skin corrosion/irritation:	no data available
Serious eye damage/eye irritation:	no data available.
Respiratory or skin sensitization:	no data available
Germ cell mutagenicity:	no data available

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SECTION 11: TOXICOLOGICAL INFORMATION (Continued)

Carcinogenicity	This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.
IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a Carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity:	no data available
Teratogenicity :	no data available
Specific target organ toxicity - single exposure (Globally Harmonized System):	no data available
Specific target organ toxicity - repeated exposure (Globally Harmonized System):	no data available
Aspiration hazard:	May be fatal if swallowed and enters airways.
Potential health effects:	
Inhalation:	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion:	May be harmful if swallowed.
Skin:	May be harmful if absorbed through skin. Causes skin irritation.
Eyes:	Causes eye irritation.
Signs and Symptoms of Exposure:	Ingestion of large amounts may cause nausea; diarrhea
Synergistic effects:	no data available
Additional Information:	RTECS: Not available

SECTION 12: ECOLOGICAL INFORMATION

Persistence and degradability:	no data available
Bioaccumulative potential:	no data available
Mobility in soil:	no data available
PBT and vPvB assessment:	no data available
Other adverse effects:	no data available
Toxicity:	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste disposal:	Do not pour down drains. Dispose of material in accordance with all Federal, State and Local regulations.
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Refer to **SECTION 7: HANDLING AND STORAGE** and **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION** for additional handling information and protection of employees.

SECTION 14: TRANSPORT INFORMATION

US DOT Information (49 CFR):	Not dangerous goods
TDG Information:	Not dangerous goods
IATA Information:	Not dangerous goods

SECTION 15: REGULATORY INFORMATION

OSHA Hazards:	Irritant
SARA 302 Components:	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components:	SARA 313: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.
SARA 311/312 Hazards:	Acute health hazard
California Prop. 65 Components:	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: OTHER INFORMATIONNotice to reader

DISCLAIMER: This Safety Data Sheet is offered without charge to the clients of SciGene. Data is the most current available to SciGene at the time of preparation and is issued as a matter of information only, no warranty as to its accuracy or completeness is expressed or implied.

SAFETY DATA SHEET (SDS)

FISH Wash Buffer 2

Pub No.: M224

Rev.: 05/23/2016

SECTION 1: IDENTIFICATION

PRODUCT NAME: FISH Wash Buffer 2
PART NO: 2010-00-2
MANUFACTURER: SciGene Corporation
 1287 Reamwood Avenue
 Sunnyvale, CA 94089 USA
EMERGENCY PHONE: Poison Control
 In U.S. 800-222-1222
 Outside U.S. Contact your local poison control center

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200

Emergency Overview

OSHA Hazards: Irritant**GHS Classification:** Acute toxicity (Category 5)
Serious eye damage (Category 1)

GHS Label elements, including precautionary statements

Pictogram:**Signal word:** Danger**Hazard statements:** H303 May be harmful if swallowed
H318 Causes serious eye damage

HMIS Classification

Health hazard: 2**Flammability:** 0**Physical hazards:** 0

NFPA Rating

Health hazard: 2**Fire:** 0**Reactivity Hazard:** 0

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.**Skin:** May be harmful if absorbed through skin. Causes skin irritation.**Eyes:** Causes eye irritation.**Ingestion:** May be harmful if swallowed.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

NAME	CAS NO	%
α -[(1,1,3,3-Tetramethylbutyl)phenyl]- ω -hydroxy-poly(oxy-1,2-ethanediyl)	9036-19-5	0.1
2.0 X Saline Sodium Citrate		99.7%

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

SECTION 4: FIRST AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Flush eyes with water as a precaution.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

SAFETY DATA SHEET (SDS)

FISH Wash Buffer 2

Pub No.: M224

Rev.: 05/23/2016

SECTION 5: FIRE-FIGHTING MEASURES

Flammability:	Not flammable or combustible
Products of combustion:	Carbon oxides
Suitable Extinguishing Media:	Regular dry chemical, carbon dioxide, water spray, regular foam
Protective Equipment:	Wear self contained breathing apparatus (SCBA) for fire fighting if necessary.
Sensitivity to Mechanical Impact:	Not sensitive
Sensitivity to Static Discharge:	No

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use personal protective equipment. Avoid breathing vapors or mist. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental precautions:	Do not let product enter drains.
Methods and materials for containment and clean up:	Soak up with inert absorbent material. Collect spilled material in appropriate container for disposal.

SECTION 7: HANDLING AND STORAGE

Handling:	Avoid breathing vapors. Wash thoroughly after handling.
Storage:	Store in accordance with local regulations. Keep container closed.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practices. Wash hands, forearms, and face thoroughly after handling chemical products.
Skin and body protection:	Personal protective equipment for the skin and body should be selected based on the task being performed and should be approved by a specialist before handling this product.
Eyes:	Goggles or safety glasses with eyeshields approved to an appropriate government standard.
Hands:	Handle with chemical resistant protective gloves.
Respiratory:	Emmissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, the use of fume scrubbers, filters, or properly fitted, air-purifying or air-fed respirators may be necessary.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid
Color:	Colorless
Physical state:	Liquid
pH:	Neutral
Boiling/condensation point:	N/A
Melting /freezing point:	N/A
Solubility:	Soluble in water
Odor:	none
Viscosity:	N/A
Explosion limits:	N/A
Flash point:	N/A
Density:	N/A
Flammability:	Non-flammable

SECTION 10: STABILITY AND REACTIVITY

Stability and reactivity:	Stable under normal conditions.
Conditions to avoid:	No data available.
Incompatibility with various substances:	Strong oxidizing agents.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide.
Hazardous Polymerization:	Will not occur under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

LD50 not established for this Product	
Acute toxicity:	no data available
Other information on acute toxicity:	
Skin corrosion/irritation:	no data available
Serious eye damage/eye irritation:	no data available.
Respiratory or skin sensitization:	no data available

SAFETY DATA SHEET (SDS)

FISH Wash Buffer 2

Pub No.: M224

Rev.: 05/23/2016

Germ cell mutagenicity: no data available

SECTION 11: TOXICOLOGICAL INFORMATION (Continued)

Carcinogenicity	This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.
IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a Carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	no data available
Teratogenicity	no data available
Specific target organ toxicity - single exposure (Globally Harmonized System):	no data available
Specific target organ toxicity - repeated exposure (Globally Harmonized System):	no data available
Aspiration hazard:	May be fatal if swallowed and enters airways.
Potential health effects:	
Inhalation:	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion:	May be harmful if swallowed.
Skin:	May be harmful if absorbed through skin. Causes skin irritation.
Eyes:	Causes eye irritation.
Signs and Symptoms of Exposure:	Ingestion of large amounts may cause nausea; diarrhea
Synergistic effects:	no data available
Additional Information:	RTECS: Not available

SECTION 12: ECOLOGICAL INFORMATION

Persistence and degradability:	no data available
Bioaccumulative potential:	no data available
Mobility in soil:	no data available
PBT and vPvB assessment:	no data available
Other adverse effects:	no data available
Toxicity:	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste disposal: Do not pour down drains. Dispose of material in accordance with all Federal, State and Local regulations.

Refer to **SECTION 7: HANDLING AND STORAGE** and **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION** for additional handling information and protection of employees.

SECTION 14: TRANSPORT INFORMATION

US DOT Information (49 CFR):	Not dangerous goods
TDG Information:	Not dangerous goods
IATA Information:	Not dangerous goods

SECTION 15: REGULATORY INFORMATION

OSHA Hazards:	Irritant
SARA 302 Components:	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components:	SARA 313: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.
SARA 311/312 Hazards:	Acute health hazard
California Prop. 65 Components:	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: OTHER INFORMATIONNotice to reader

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FISH Wash Buffer 1 and 2



Ready-to-use FISH Wash Buffer 1 (0.4xSSC/0.3% IGEPAL, pH 7) and FISH Wash Buffer 2 (2xSSC/0.1% IGEPAL, pH 7) for post-hybridization slide washing. Provided in convenient 4L containers with flow control spouts.

For Research Use Only

Buffers are provided in 4L containers.

- pH and ionic strength are lot tested and certified
- Eliminates manual dilutions and tedious pH adjustment
- Economical. As low as \$0.60 USD per use
- Certificate of Analysis included

PRODUCT		CATALOG #
FISH Wash Buffer 1 (0.4xSSC/0.3% IGEPAL, pH 7)		2010-00-1
FISH Wash Buffer 2 (2xSSC/0.1% IGEPAL, pH 7)		2010-00-2
SPECIFICATION	DESCRIPTION	
Volume	4L	
pH	6.75 - 7.25	
Ionic Strength	Cat #2010-00-1	3,800 - 4,300 ppm TDS
	Cat #2010-00-2	19,000 - 20,500 ppm TDS
Dimensions (HxWxD)	7 x 7 x 7 inches (18 x 18 x 18 cm)	
Weight	10 lbs (5 kg)	
RELATED PRODUCT	DESCRIPTION	
CytoBrite® Slide Incubation System	Programmable slide incubation system for performing FISH/ISH hybridization protocols	
Little Dipper® Processor	Automates processing of slides for FISH and karyotype analysis.	
CytoZyme® Stabilized Pepsin	For readying tissue samples for hybridization with nucleic acid probes	
CytoBond® Removable Coverslip Sealant	Ready-to-use for temporary sealing slide coverslips.	
Sodium Thiocyanate Pretreatment Reagent (NaSCN)	Ready-to-use for pre-treating tissue samples prior to application of nucleic acid probes	
PUB #	PUBLICATIONS	TYPE
M223	FISH Wash Buffer 1	MSDS
M224	FISH Wash Buffer 2	MSDS

Related Products



CytoBrite® Slide Incubation System



Little Dipper® Processor



CytoZyme® Stabilized Pepsin



CytoBond® Removable Coverslip Sealant