

HANABI-S1020 Staining Kit (SP2701)

Safety Data Sheet according to Regulation (EC) No. 453/2010 Date of issue : 01 September 2022 Revison: 0

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

1.1. Product identifier		
Product name	: Stock Giemsa	
Product code	: SP2701-G	
Synonyms	: Azure Eosin Methylene Blue Solution	on
Product name	: Concentrated Trypsin	
Product code	: SP2701-T	
Synonyms	Trypsin (1000x)	
Product name	: Phosphate Buffered Saline	
Product code	: 554430	
Synonyms	: 1x PBS	
Product name	: Sorensen's Buffer	
Product code	: 554433	
Synonyms	: N/A	
	substance or mixture and uses advised agains	t
1.2.1. Relevant identified uses		
Giemsa	Concentrated staining solution for C	G-banding of chromosomes.
Trypsin	: Concentrated enzymatic solution for	•
PBS	Diluent for concentrated Giemsa ar	-
4.0.0 Uses advised ensinet		
1.2.2. Uses advised against Giemsa	: Not intended for consumer use.	
1.3. Details of the supplier of the sa	fety data sheet	
<u>Component</u>	Manufactured by:	Supplied by:
Giemsa	: EMD Millipore Corporation	ADS Biotec
	400 Summit Dr.	7409 Irvington Rd.
	Burlington, MA 01803	Omaha, NE 68122
	United States	United States +1 402-800-3200
	+1 800-645-5476	1102 000 0200
Trypsin	: Life Technologies	
Турын	5250 Mainway Dr.	
	Burlington, ONT	
	Canada L7L 6A4	
DBC	+1 800-263-6236 : ADS Biotec	
PBS	7409 Irvington Rd.	
	Omaha, NE 68122	
	United States	
	+1 402-800-3200	
Sorensen's Buffer	: ADS Biotec	
	7409 Irvington Rd.	
	7409 Irvington Rd. Omaha, NE 68122 United States	
	Omaha, NE 68122	

Emergency telephone number 1.4.

Emergency Contact Number

: USA: 1-800-255-3924 (CHEMTEL 24hr); International: +1-813-248-0585 (CHEMTEL 24hr)

SECTION 2: Hazards identification

2.1. Classification of	of the substance or mixture			
<u>Component</u>	Classification		<u>Hazards</u>	
Giemsa	: GHS in accordance with 29 CFR 1910 (OSHA HCS)	:	Flammable Liquids (Category 2), H225 Acute Toxicity, Oral (Category 3), H301 Acute Toxicity, Inhalation (Category 3), H331 Acute Toxicity, Dermal (Category 3), H311 Skin Sensitization (Category 1), H317 Specific target organ toxicity – single exposure (Category 1), Eyes, Central Nervous System, H370	
Trypsin	: GHS	:	Respiratory sensitization (Category 1)	
PBS	: WHMIS 2015	:	Not classified under the Hazardous Products Regulations (SOR/2015- 17)	
Sorensen's Buffer	 GHS in accordance with 29 CFR 1910 (OSHA HCS 		Śn Irritation (Category 2), H315 Eye Irritation (Category 2B), H320	
For the full text of the H-	Statements mentioned in this Section,	see	e Section 16	

or the full text of the H-Statements mentioned in this S 2.2. Label elements

GHS Label elements, Pictograms

GH5 Laber elements, Fi	ciogi	anis
Giemsa	:	
Trypsin	:	
PBS	:	None
Sorensen's Buffer	:	

Precautionary statements

<u>Giemsa</u>	<u>Trypsin</u>	PBS	Sorensen's Buffer
Danger	Danger	None	Warning
	Not Hazardous	None	
	Not Hazardous	None	
H225 Highly flammable liquid and vapor. H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled. H317 May cause an allergic skin reaction. H370 Causes damage to organs (Eyes, Central nervous system).	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.	None	H315 Causes skin irritation H320 Causes eye irritation
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion- proof electrical/ ventilating/ lighting/ equipment. P242 Use only non-	P261 Avoid breathing dust/fume/gas/mist/vap ors/spray P284 In case of inadequate ventilation wear respiratory protection	None	P280 Wear protective gloves
	Danger Danger H225 Highly flammable liquid and vapor. H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled. H317 May cause an allergic skin reaction. H370 Causes damage to organs (Eyes, Central nervous system). P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion- proof electrical/ ventilating/ lighting/ equipment.	DangerDangerDangerDangerNot HazardousNot HazardousH225 Highly flammable liquid and vapor. H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled. H317 May cause an allergic skin reaction. H370 Causes damage to organs (Eyes, Central nervous system).H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.P261 Avoid breathing dust/fume/gas/mist/vap ors/spray P284 In case of inadequate ventilation wear respiratory protectionP210 Ground/bond container and receiving equipment.P261 Avoid breathing dust/fume/gas/mist/vap ors/sprayP240 Ground/bond container and receiving equipment.P261 Avoid breathing dust/fume/gas/mist/vap ors/sprayP240 Ground/bond container and receiving equipment.P241 Use explosion- proof electrical/ ventilating/ lighting/ equipment.P242 Use only non-P242 Use only non-	DangerDangerNoneDangerNot HazardousNoneNot HazardousNoneH225 Highly flammable liquid and vapor. H301 + H311 + H331 contact with skin or if inhaled.H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.NoneH317 May cause an allergic skin reaction. H370 Causes damage to organs (Eyes, Central nervous system).P261 Avoid breathing dust/fume/gas/mist/vap ors/sprayNoneP210 Keep away from flames/ hot surfaces. No smoking.P261 Avoid breathing dust/fume/gas/mist/vap ors/sprayNoneP233 Keep container tightly closed. P240 Ground/bond container and receiving equipment.P261 Avoid breathing hot surfaces. No protectionNoneP241 Use explosion- proof electrical/ ventilating/ lighting/ equipment. P242 Use only non-Pance to the panel of the pa

according to Regulation (EC) No.		Turain	DDC	Commencer's Droff
	<u>Giemsa</u>	<u>Trypsin</u>	<u>PBS</u>	Sorensen's Buffer
Precautionary	P243 Take			
Statements	precautionary measures			
	against static discharge.			
	P260 Do not breathe			
	dust/ fume/ gas/ mist/			
	vapors/ spray.			
	P264 Wash skin			
	thoroughly after			
	handling.			
	P270 Do not eat, drink			
	or smoke when using			
	this product.			
	P271 Use only outdoors			
	or in a well-ventilated			
	area.			
	P272 Contaminated			
	work clothing must not			
	be allowed out of the			
	workplace.			
	P280 Wear protective			
	gloves/ eye protection/			
	face protection.			
	P301 + P310 + P330 IF			
	SWALLOWED:			
	Immediately call a			
	POISON CENTER/			
	doctor. Rinse mouth.			
Precautionary	P303 + P361 + P353 IF		None	P305 + 351 + 338 If in
Statements	ON SKIN (or hair): Take			eyes: Rinse cautiously
	off immediately all			with water for several
	contaminated clothing.			minutes. Remove
	Rinse skin with water/			contact lenses, if
	shower.			
	P304 + P340 + P311 IF			present and easy to do so. Continue rinsing.
	INHALED: Remove			P332 + 313 If skin
	person to fresh air and			irritation occurs: Get
	keep comfortable for			medical
				advice/attention.
	breathing. Call a POISON CENTER/			
	doctor.			P337 + 313 If eye
				irritation persists: Get medical
	P307 + P311 IF			
	exposed: Call a			advice/attention.
	POISON CENTER or			P302 + 352 IF ON
	doctor/ physician. P333 + P313 If skin			SKIN: Wash with plenty
				of water.
	irritation or rash occurs:			P362 + 364 Take off
	Get medical advice/			contaminated clothing
	attention.			and wash it before
	P362 Take off			reuse.
	contaminated clothing			P403 + 233 Store in a
				well-ventilated place.
	and wash before reuse.			
	P370 + P378 In case of			Keep container tightly
	P370 + P378 In case of fire: Use dry sand, dry			closed.
	P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-			closed. P501 Dispose of
	P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol- resistant foam to			closed. P501 Dispose of contents/container in
	P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol- resistant foam to extinguish.			closed. P501 Dispose of contents/container in accordance with
	P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol- resistant foam to extinguish. P403 + P233 Store in a			closed. P501 Dispose of contents/container in accordance with local/regional/
	P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol- resistant foam to extinguish.			closed. P501 Dispose of contents/container in accordance with local/regional/ international
	P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol- resistant foam to extinguish. P403 + P233 Store in a			closed. P501 Dispose of contents/container in accordance with local/regional/
	P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol- resistant foam to extinguish. P403 + P233 Store in a well-ventilated place.			closed. P501 Dispose of contents/container in accordance with local/regional/ international
	P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol- resistant foam to extinguish. P403 + P233 Store in a well-ventilated place. Keep container tightly			closed. P501 Dispose of contents/container in accordance with local/regional/ international
	P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol- resistant foam to extinguish. P403 + P233 Store in a well-ventilated place. Keep container tightly closed.			closed. P501 Dispose of contents/container in accordance with local/regional/ international

	<u>Giemsa</u>	<u>Trypsin</u>	<u>PBS</u>	Sorensen's Buffer
Precautionary Statements	P405 Store locked up. P501 Dispose of contents/ container to an approved waste disposal plant.			
Response		DO NOT USE: P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician	None	
Storage		Not Applicable	None	
Disposal		P501 Dispose of contents/ container to an approved waste disposal plant	None	
Other Hazards	None	Not applicable	None	

2.3. Other hazards

Hazards not otherwise classified (HNOC) or not covered by GHS: None

SECTION 3: Composition/information on ingredients

3.1. Giemsa		
Component	Classification	Concentration
Methanol CAS-No. 67-56-1	Flam. Liq. 2; Acute Tox. 3; STOT SE 1; H225, H301, H331, H311, H370 Concentration limits: >= 10 %: STOT SE 1, H370; 3 - < 10 %: STOT SE 2, H371	≥30% to ≤50%
Glycerine CAS-No. 56-81-5		≥30% to ≤50%
Diethylammonium Chloride CAS-No. 660-68-4	Acute Tox. 4; Acute Tox. 3; Skin Corr. 1A; Eye Dam. 1; Skin Sens. 1; STOT SE 3; Aquatic Acute 3; H302, H332, H311, H314, H318, H317, H335, H402	≥0.1% to ≤1%
Eosin G CAS-No. 17372-87-1	Eye Irrit. 2A; Skin Sens. 1; Aquatic Acute 3; H319, H317, H402	≥0.1% to ≤1%

3.2. Trypsin

	Component	Classification	Concentration
	Trypsin CAS-No. 9002-07-7	Flam. Liq. 2; Acute Tox. 3; STOT SE 1; H225, H301, H331, H311, H370 Concentration limits: >= 10 %: STOT SE 1, H370; 3 - < 10 %: STOT SE 2, H371	1% to 5%
3.3	B PBS		

Component	CAS Number	Concentration
Water	7732-18-5	>99%
Sodium Phosphate, Dibasic	7558-79-4	<0.5%
Sodium Chloride	7647-14-5	<1%
Potassium Phosphate, Monobasic	7778-77-0	<0.1%
Potassium Chloride	7447-40-7	<0.1%
PBS		

Component	CAS Number	Concentration
Water	7732-18-5	>99%
Sodium Phosphate, Dibasic	7558-79-4	<1%
Potassium Phosphate, Monobasic	7778-77-0	<1%

Full text of H-phrases: see section 16

SECTION 4: First aid measures				
4.1. Description of	first aid measures			
	<u>Giemsa</u>	<u>Trypsin</u>	PBS	
Signal Word(s)	Danger	Danger	None	

09/01/2022	EN (English)		5
Response Storage		DO NOT USE: P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician Not Applicable	None
Precautionary Statements	 P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/ eye protection/ face protection. P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor. P307 + P311 IF exposed: Call a POISON CENTER doctor. P307 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/ container to an approved waste disposal plant. 	respiratory protection	None
Precautionary Statements	contact with skin or if inhaled. H317 May cause an allergic skin reaction. H370 Causes damage to organs (Eyes, Central nervous system). P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. P233 Keep container tightly closed.	P261 Avoid breathing dust/fume/gas/mist/vapors/spray P284 In case of inadequate ventilation wear	None
Hazard Statements	H225 Highly flammable liquid and vapor. H301 + H311 + H331 Toxic if swallowed, in	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.	None
Environmental Hazards		Not Hazardous	None
Physical Hazards		Not Hazardous	None
	<u>Giemsa</u>	<u>Trypsin</u>	PBS
according to Regulation (EC) No. 4	53/2010		

Giemsa

Disposal

Trypsin

P501 Dispose of contents/ container to an None approved waste disposal plant

PBS

Other Hazards	None		Not applicable	None
	<u>Giemsa</u>	<u>Trypsin</u>	PBS	Sorensen's Buffer
General Advice	First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.			Consult a physician if symptoms are severe or persistent. Provide this data sheet to medical personnel.
Inhalation	Fresh air. Immediately call a physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.	Remove to fresh air. If not breathing, give artificial respiration. If symptoms persist call a physician	Remove to fresh air. If not breathing, give artificial respiration. If symptoms persist call a physician	Remove to fresh air. If no breathing, give artificial respiration. If symptoms persist call a physician
Skin Contact	Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Immediate medical attention is required.	Wash off immediately with plenty of water for at least 15 minutes. If symptoms arise, call a physician.	Wash off immediately with plenty of water for at least 15 minutes. If symptoms arise, call a physician.
Eye Contact	Rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.	Rinse thoroughly with plenty of water, also unde the eyelids. If symptoms persist, call a physician.
Ingestion	Fresh air. Make victim drink ethanol (e.g. 1 drinking glass of a 40% alcoholic beverage). Call a doctor immediately (mention methanol ingestion). Only in exceptional cases, if no medical care is available within one hour, induce vomiting (only in fully conscious persons) and make victim drink ethanol again (approx. 0.3 ml of a 40% alcoholic beverage/kg body weight/hour).	Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Get medical attention if symptoms occur.	Rinse mouth. Do NOT induce vomiting. Get medical attention if symptoms occur.	Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Get medical attention if symptoms occur.
Note to Physician	- <i>i</i>	Treat symptomatically	Treat symptomatically	Treat symptomatically
.2. Most impo	ortant symptoms and effects, b	oth acute and delaved	I	I
		nptoms and effects are described	in the labelling (see section 2.2)	and/or in section 11
		sthma symptoms or breathing diff		
	: None			
Sorensen's	: None			

Sorensen's : None Buffer

SECTION 5: Firefighting measures Extinguishing media 5.1.

: Suitable: Water Foam Carbon (CO₂) Dry Powder Giemsa

Unsuitable: No limitations given

	Jauon (EC) No. 453/2010
Trypsin	: Suitable: Water Foam Carbon (CO ₂) Dry Powder
	Unsuitable: No limitations given
PBS	: Unsuitable: No information available
Sorensen's Buffer	: Suitable: Water Spray, alcohol-resistant foam, dry chemical, and carbon dioxide (CO ₂)
5.2. Specia	I hazards arising from the substance or mixture
Giemsa	Carbon oxides, Mixture with combustible ingredients, Fire may cause evolution of: Acrolein. Pay attention to flashback. Vapors are heavier than air and may spread along floors. Development of hazardous combustion gases or vapours possible in the event of fire. Forms explosive mixtures with air at ambient temperatures.
Trypsin	: Not known
PBS	: Keep product and empty container away from heat and sources of ignition.
Sorensen's Buffer	: Not known
5.3. Advice	e for firefighters
Giemsa	: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
Trypsin	: Wear self-contained breathing apparatus and protective suit
PBS	: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) andfull protective gear.
Sorensen's Buffer	: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) andfull protective gear.
5.4. Furthe	r information
Giemsa	: Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.
SECTION 6:	Accidental release measures
6.1. Persor	al precautions, protective equipment and emergency procedures
Giemsa	: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
Trypsin	: Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment. See section 8 for more information.
PBS	: Use personal protective equipment as required. Ensure adequate ventilation.
• •	. Ose personal protective equipment as required. Ensure adequate ventilation.
Sorensen's Buffer	: Use personal protective equipment as required. Ensure adequate ventilation.
Buffer	
Buffer	: Use personal protective equipment as required. Ensure adequate ventilation.
Buffer 6.2. Enviro	: Use personal protective equipment as required. Ensure adequate ventilation.
Buffer 6.2. Enviro Giemsa	Use personal protective equipment as required. Ensure adequate ventilation. Immental precautions Do not let product enter drains. Risk of explosion.
Buffer 6.2. Enviro Giemsa Trypsin	 Use personal protective equipment as required. Ensure adequate ventilation. nmental precautions Do not let product enter drains. Risk of explosion. Avoid discharge into drains and waterways whenever possible.
Buffer 6.2. Enviro Giemsa Trypsin PBS Sorensen's Buffer	 Use personal protective equipment as required. Ensure adequate ventilation. nmental precautions Do not let product enter drains. Risk of explosion. Avoid discharge into drains and waterways whenever possible. See Section 12 for additional Ecological Information.
Buffer 6.2. Enviro Giemsa Trypsin PBS Sorensen's Buffer	 Use personal protective equipment as required. Ensure adequate ventilation. nmental precautions Do not let product enter drains. Risk of explosion. Avoid discharge into drains and waterways whenever possible. See Section 12 for additional Ecological Information. Avoid discharge into drains and waterways whenever possible.
Buffer 6.2. Enviro Giemsa Trypsin PBS Sorensen's Buffer 6.3. Metho	 Use personal protective equipment as required. Ensure adequate ventilation. nmental precautions Do not let product enter drains. Risk of explosion. Avoid discharge into drains and waterways whenever possible. See Section 12 for additional Ecological Information. Avoid discharge into drains and waterways whenever possible. ds and material for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up
Buffer 6.2. Enviro Giemsa Trypsin PBS Sorensen's Buffer 6.3. Metho Giemsa	 Use personal protective equipment as required. Ensure adequate ventilation. nmental precautions Do not let product enter drains. Risk of explosion. Avoid discharge into drains and waterways whenever possible. See Section 12 for additional Ecological Information. Avoid discharge into drains and waterways whenever possible. ds and material for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.
Buffer 6.2. Enviro Giemsa Trypsin PBS Sorensen's Buffer 6.3. Metho Giemsa Trypsin	 Use personal protective equipment as required. Ensure adequate ventilation. nmental precautions Do not let product enter drains. Risk of explosion. Avoid discharge into drains and waterways whenever possible. See Section 12 for additional Ecological Information. Avoid discharge into drains and waterways whenever possible. ds and material for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area. Soak up with inert absorbent material.
Buffer 6.2. Enviro Giemsa Trypsin PBS Sorensen's Buffer 6.3. Metho Giemsa Trypsin PBS Sorensen's Buffer	 Use personal protective equipment as required. Ensure adequate ventilation. nmental precautions Do not let product enter drains. Risk of explosion. Avoid discharge into drains and waterways whenever possible. See Section 12 for additional Ecological Information. Avoid discharge into drains and waterways whenever possible. ds and material for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area. Soak up with inert absorbent material. Soak up with inert absorbent material.
Buffer 6.2. Enviro Giemsa Trypsin PBS Sorensen's Buffer 6.3. Metho Giemsa Trypsin PBS Sorensen's Buffer	 Use personal protective equipment as required. Ensure adequate ventilation. nmental precautions Do not let product enter drains. Risk of explosion. Avoid discharge into drains and waterways whenever possible. See Section 12 for additional Ecological Information. Avoid discharge into drains and waterways whenever possible. ds and material for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.
Buffer 6.2. Enviro Giemsa Trypsin PBS Sorensen's Buffer 6.3. Metho Giemsa Trypsin PBS Sorensen's Buffer 6.4. Refere	 Use personal protective equipment as required. Ensure adequate ventilation. nmental precautions Do not let product enter drains. Risk of explosion. Avoid discharge into drains and waterways whenever possible. See Section 12 for additional Ecological Information. Avoid discharge into drains and waterways whenever possible. ds and material for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area. Soak up with inert absorbent material. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.
Buffer 6.2. Enviro Giemsa Trypsin PBS Sorensen's Buffer 6.3. Metho Giemsa Trypsin PBS Sorensen's Buffer 6.4. Refere Giemsa	 Use personal protective equipment as required. Ensure adequate ventilation. nmental precautions Do not let product enter drains. Risk of explosion. Avoid discharge into drains and waterways whenever possible. See Section 12 for additional Ecological Information. Avoid discharge into drains and waterways whenever possible. See Section 12 for additional Ecological Information. Avoid discharge into drains and waterways whenever possible. See Section 12 for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area. Soak up with inert absorbent material. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. For disposal see section 13.

according to Regulation (EC) No. 453/2010

SECTION 7 : Handling and storage 7.1. Precautions for safe handling Giemsa : Advice on safe handling: Work under hood. Do not inhale substance/mixture. Avoid generation of vapors/aerosols. Advice on protection against fire and explosion: Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge. Hygiene measures: Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2. Trypsin : Advice for safe handling: Always wear recommended Personal Protective Equipment. See section 8 for more information. Do not get in eyes, on skin, or on clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. PBS : Wear personal protective equipment/face protection. Ensure adequate ventilation. Sorensen's : Wear personal protective equipment/face protection. Ensure adequate ventilation. Buffer 7.2. Conditions for safe storage, including any incompatibilities Giemsa Storage conditions: Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons. Recommended storage temperature see product label. Storage class: Storage class (TRGS 510): 3: Flammable liquids Trypsin : Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers. Store in accordance with local regulations. PBS : Keep containers tightly closed in a dry, cool and well-ventilated place. Sorensen's : Keep containers tightly closed in a dry, cool and well-ventilated place. Buffer 7.3. Specific end use(s) Giemsa : Apart from the uses mentioned in section 1.2 no other specific uses are stipulated : CAUTION: For use as a raw material component in further manufacturing applications. Trypsin PBS : None Sorensen's : None Buffer

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Giemsa

Ingredients with workplace control parameters

<u>Component</u>	CAS-No.	<u>Value</u>	<u>Control</u> parameters	Basis		
Methanol	67-56-1	TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)		
	Remarks	Danger of o	cutaneous absorptio	n		
		STEL	250 ppm	USA. ACGIH Threshold Limit Values (TLV)		
		Danger of o	cutaneous absorptio	n		
		ST 250 ppm	325 mg/m ³	USA. NIOSH Recommended Exposure Limits		
		Potential for	r dermal absorption			
		TWA	200 ppm	USA. NIOSH Recommended Exposure Limits		
			260 mg/m ³			
		Potential for	Potential for dermal absorption			
		TWA	200 ppm 260 mg/m ³	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants		
		PEL	200 ppm 260 mg/m ³	California permissible exposure limits for chemical contaminants (Title 8, Article 107)		
		Skin	1			
		С	1,000 ppm	California permissible exposure limits for chemical contaminants (Title 8, Article 107)		
		Skin				
		STEL	250 ppm 325 mg/m ³	California permissible exposure limits for chemical contaminants (Title 8, Article 107)		
		Skin	1			

<u>Component</u>	<u>CAS-No.</u>	<u>Value</u>	<u>Control</u> parameters	Basis
Glycerine	56-81-5	TWA	5 mg/m ³	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	15 mg/m ³	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		PEL	10 mg/m ³	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		PEL	5 mg/m ³	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		TWA	10 mg/m ³	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	5 mg/m ³	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

Biological occupational exposure limits

Component	CAS-No.	Parameters	<u>Value</u>	Biological Specimen	Basis	
Methanol	67-56-1	Methanol	15 mg/L	Urine	ACGIH – Biological Exposure Indicies (BEI)	
	Remarks	End of shift (A	End of shift (As soon as possible after exposure ceases)			

Trypsin

Control Parameters							
Chemical Name	<u>OSHA</u>	<u>PEL</u>	OSHA PEL (C	Ceiling)	ACGIH OEL (TWA)		ACGIH OEL (STEL)
Trypsin	None		None		None		None
Chemical Name		<u>Brazil – OEL – TWAs</u>	s (LTs)	Brazil – OEL ·	- Ceilings	Brazil	– OEL – Skin Designations
Trypsin		None		None		None	

PBS

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Sorensen's Buffer

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

	<u>Giemsa</u>	<u>Trypsin</u>	PBS	Sorensen's Buffer
Appropriate engineering controls	Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.			
Personal protecti	ve equipment	-		
Hand protection	Wear suitable gloves.	Wear suitable gloves.	Wear appropriate protective gloves and clothing to prevent skin exposure	Wear appropriate protective gloves and clothing to prevent skin exposure
Eye protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.	Tight sealing safety goggles.	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.	Use only government- approved safety glasses with side- shields.
Skin and body protection	When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves. Flame retardant antistatic protective clothing.	Wear laboratory coat for body protection.	Wear appropriate clothing. Ensure clothing is in good condition, with no holes or tears. When selecting clothing, consider the concentrations and amount of substance to be handled.	Wear appropriate clothing. Ensure clothing is in good condition, with no holes or tears. When selecting clothing, consider the concentrations and amount of substance to be handled.

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		0	`
according to	Regulation	(EC) No.	453/2010

	<u>Giemsa</u>	<u>Trypsin</u>	PBS	Sorensen's Buffer
Respiratory protection	Required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.	In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.	No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
Environmental exposure controls	Do not let product enter drains. Risk of explosion.	Avoid discharge into drains and waterways whenever possible.	No information available.	Avoid discharge into drains and waterways whenever possible.
Other information		Handle in accordance with good industrial hygiene and safety practice.	Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. Donot eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, beforere-use. Wash hands before breaks and after work.	Comply with general industrial hygiene practice guidelines. Keep away from food, drink and animal feedingstuffs. Donot eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, beforere-use. Wash hands before breaks and after work.

9.1. Information on basic physical and chemical properties

9.1.	Information on bas	sic physical and chemical prop	perties		
		<u>Giemsa</u>	<u>Trypsin</u>	PBS	Sorensen's Buffer
Physi	cal state	Liquid	Liquid	Liquid	Liquid
Colou	ır	Blue	Clear	Clear	Clear
Odou	r	Of Methanol	No data available	Slight	Odorless
Odou	r threshold	No data available	No data available	No data available	No data available
pН		6.0 – 8.2 @ 20°C (68°F) – (undiluted)	No data available	7.3 - 7.5	6.8 - 7.0
Meltin	g point	No data available	No data available	~0°C (32°F)	~0°C (32°F)
Freez	ing point	No data available	No data available	~0°C (32°F)	~0°C (32°F)
Boilin	g point	> 65°C > 149°F @ 1,013hPa	No data available	~100°C (212°F)	~100°C (212°F)
Flash	point	Ca.18°C (64°F)	No data available	No data available	No data available
Evapo	oration rate	No data available	No data available	No data available	No data available
Flamr	mability (solid, gas)		No data available	No flammable	Not flammable
	r/lower flammability or sive limits	Upper explosion limit: 44%(V) – Methanol Lower explosion limit: 5.5%(V) – Methnaol	No data available	No data available	No data available
Vapo	ur pressure	No data available	No data available	No data available	No data available
Relati 20 °C	ve vapour density at	No data avalable	No data available	>1.0	No data available
Densi	ity	No data available		No data available	No data available
Relati	ve density	0.99 g/cm ³ @ 20°C (68°F)	No data available		
Solub	ility		No data available	Soluble in water	No data available
	ion coefficient: n- ol/water	No data available	No data available	No data available	No data available
Autoię	gnition temperature	No data available	No data available	Not applicable	Not applicable
	mposition erature	No data available	No data available	No data available	No data available
Visco	sity, kinematic	No data available	No data available	No data available	No data available
Visco	sity, dynamic	No data available	No data available	No data available	No data available
Oxidis	sing properties	None	No data available	No data available	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Giemsa vapors may form explosive mixture with air. Trypsin, PBS, and Sorensen's Buffer have no known reactive hazards.

10.2. **Chemical stability**

All reagents are stable under normal conditions.

10.3. Possib	lity of hazardous reactions
Giemsa	 Risk of exp[losion with: Oxidizing agents, perchloric acid, perchlorates, salts of oxyhalogenic acids, chromium(VI) oxide, halogen oxides, nitrogen oxides, nonmetallic oxides, chromosulfuric acid, chlorates, hydrides, zinc diethyl, Halogens, Magnesium, hydrogen peroxide, Nitric acid, peroxi compounds, Nitriles.
	Exothermic reaction with: acid halides, Acid anhydrides, Reducing agents, Acids, Oxides of phosphorus, chromium(VI) oxide, phosphorus halides, Acetic anhydride, with, phosphorous oxichloride
	Generates dangerous gases or fumes in contact with: Alkaline earth metals, Alkali metals
	Risk of ignition or formation of inflammable gases or vapours with: potassium permanganate, calcium hypochlorite, Oxides of phosphorus
	Fluorine with Lead oxides
	Generates dangerous gases or fumes in contact with: Alkaline earth metals, Alkali metals
Trypsin	: Hazardous reaction has not been reported.
PBS	: Strong oxidizing agents
Sorensen's Buffer	: Strong oxidizing agents
10.4. Conditi	ons to avoid
Giemsa	Risk of exp[losion with: Oxidizing agents, perchloric acid, perchlorates, salts of oxyhalogenic acids, chromium(VI) oxide, halogen oxides, nitrogen oxides, nonmetallic oxides, chromosulfuric acid, chlorates, hydrides, zinc diethyl, Halogens, Magnesium, hydrogen peroxide, Nitric acid, peroxi compounds, Nitriles.
	Exothermic reaction with: acid halides, Acid anhydrides, Reducing agents, Acids, Oxides of phosphorus, chromium(VI) oxide, phosphorus halides, Acetic anhydride, with, phosphorous oxichloride
	Generates dangerous gases or fumes in contact with: Alkaline earth metals, Alkali metals
	Risk of ignition or formation of inflammable gases or vapours with: potassium permanganate, calcium hypochlorite, Oxides of phosphorus
	Fluorine with Lead oxides
	Generates dangerous gases or fumes in contact with: Alkaline earth metals, Alkali metals
Trypsin	: Hazardous reaction has not been reported.
PBS	: Incompatible products.
Sorensen's Buffer	: Incompatible products
10.5. Incomp	atible Materials
Giemsa	: Various plastics, Aluminium, zinc alloys, Magnesium
Trypsin	No dangerous reaction known under conditions of normal use.
PBS	: Strong oxidizing agents
Sorensen's Buffer	: Strong oxidizing agents
10.6. Hazard	ous decomposition products
Giemsa	: In the event of fire, see Section 5
Trypsin	No known hazardous decomposition products.
PBS	: None under normal use conditions
Sorensen's Buffer	: None under normal use conditions
	Texteclesical information
SECTION 11:	Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

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	a Sneet for HANABI-
	ining Kit (SP2701)
a a	ulation (EC) No. 453/2010
Giemsa	: Acute toxicity estimate Oral - 201.44 mg/kg (Calculation method)
	Acute toxicity estimate Inhalation - 4 h - 6.24 mg/l – vapor (Calculation method)
	Acute toxicity estimate Dermal - 600.08 mg/kg (Calculation method)
Trypsin	: Data are conclusive but insufficient for classification.
PBS	: No information available
Sorensen's Buffer	: No information available
Skin Toxicity	
Giemsa	: No data available
Trypsin	: Data are conclusive but insufficient for classification.
PBS	: No information available
Sorensen's Buffer	: No information available
Serious Eye Dar	nage/Irritation
Giemsa	: No data available
Trypsin	: Data are conclusive but insufficient for classification.
PBS	: No information available
Sorensen's	: No information available
Buffer	
Respiratory or S	Skin Sensitization
Giemsa	: Mixture may cause an allergic skin reaction.
Trypsin	: May cause sensitization by inhalation
PBS	: No information available
Sorensen's Buffer	: No information available
Carcinogenicity	
Giemsa	: IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
	NTP: No ingredient 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 on OSHA's list of regulated carcinogens.
Trypsin	: Data are conclusive but insufficient for classification.
PBS	: No data available
Sorensen's	: No data avilable
Buffer	
Reproductive To	DXicity
Giemsa	: No data available
Trypsin	: Data are conclusive but insufficient for classification.
PBS	: No information available
Sorensen's	: No infromation available
Buffer	
	Toxicity (Single Exposure)
Giemsa	: Mixture causes damage to organs Eyes, Central nervous system
Trypsin	: Data are conclusive but insufficient for classification.
PBS	: None known
Sorensen's Buffer	: None known
Specific Organ	Toxicity (Repeated Exposure)
Giemsa	: No data available
Trypsin	: Data are conclusive but insufficient for classification.
PBS	: None known
Sorensen's	: None known
Buffer	
Aspiration Haza	
Giemsa	: No data available
Trypsin	: Data are conclusive but insufficient for classification.

PBS	:	No information available
Sorensen's Buffer	:	No infromation available

Potential Adverse Human Health Effects and Symptoms

Giemsa	: Systemic effects: acidosis, drop in blood pressure, agitation, spasms, inebriation, Dizziness, Drowsiness, Headache, Impairment of vision, Blindness, narcosis, Coma. Symptoms may be delayed. Damage to: Liver, Kidney, Cardiac. Irreversible damage of the optical nerve. Other dangerous properties cannot be excluded. Handle in accordance with good industrial hygiene and safety practice.
Trypsin	: Oral LD ₅₀ : >5g/kg in Rat. Dermal LD ₅₀ and Inhalation LD ₅₀ : No data available
PBS	: Oral LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Dermal LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Vapor LC50 Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.
	The toxicological properties have not been fully investigated.
Sorensen's Buffer	: No infromation available

SECTION 12	: Ecological information
12.1. Toxici	
Giemsa	: No infromation available
Trypsin	: No infromation available
PBS	: No infromation available
Sorensen's Buffer	: No infromation available
12.2. Persis	stence and degradability
Giemsa	: No data available
Trypsin	: No data available
PBS	: Miscible with water Persistence is unlikely based on information available.
Sorensen's Buffer	: No infromation available
12.3. Bioac	cumulative potential
Giemsa	: No data available
Trypsin	: No data available
PBS	: No data available
Sorensen's Buffer	: No data available
12.4. Mobili	ty in soil
Giemsa	: No data available
Trypsin	: No data available
PBS	: Will likely be mobile in the environment due to its water solubility
Sorensen's Buffer	: Will likely be mobile in the environment due to its water solubility
12.5. Result	ts of PBT and vPvB assessment
Giemsa	: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Trypsin	: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
PBS	: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Sorensen's Buffer	: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.6. Other	adverse effects
Giemsa	: Endocrine disrupting properties: No data available
	Discharge into the environment must be avoided.
Trypsin	: No data available
PBS	: No data available
Sorensen's Buffer	: No data available

according to Regulation (EC) No. 453/2010

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. Empty containers or liners may retain some product residues. No mixing with other waste. Handle uncleaned containers like the product itself. Disposal of Giemsa and Trypsin, its solutions, or of any by-products, shall comply with the requirements of all applicable local, regional, or national/federal regulations.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Trypsin, PBS, and Sorensen's Buffer are not dangerous goods in sense of transport regulations.

Giemsa: DOT (US) UN number: 1230

Class: 3 Packing group: II							
Proper shipping name: Methanol							
Reportable Quantit	y (RQ):						
IMDG UN number:	: 1230						
Class: 3 (6.1) Packing group: II							
Proper shipping name: METHANOL							
IATA UN number: 1230							
Class: 3 (6.1)	Packing group: II						

Poison Inhalation Hazard: No

EMS-No: F-E, S-D

Proper shipping name: Methanol

SECTION 15: Regulatory information

Giemsa

SARA 302 Components: This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components: The following components are subject to reporting levels established by SARA Title III, Section 313:

Methanol CAS-No. 67-56-1 Revision Date 2007-07-01

Massachusetts Right To Know Components: No components are subject to the Massachusetts Right to Know Act.

Trypsin

Component	<u>US TSCA</u>
Trypsin	Listed

US Federal Regulations

SARA 313 Components: This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61): This product does not contain HAPs

US State Regulations

California Proposition 65: This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class: D2A - Very toxic materials

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR. National Regulations - Brazil

<u>Chemical</u>	CAS-No.	Brazil – National Agency for Sanitary Surveillance	Brazil – National List of Carcinogen Agents to Human
<u>Name</u>		(ANVISA)	(LINACH)
Trypsin	9002-07-7	Not Listed	Not Listed

PBS

International Inventories

<u>Component</u>	CAS-No	<u>DSL</u>	<u>NDSL</u>	<u>TSCA</u>	TSCA Inventory notification – Active-Inactive	EINECS	ELINCS	<u>NLP</u>
Water	7732-18-5	Listed	Not Listed	Listed	Active	231-791-2	Not Listed	Not Listed
Sodium Chloride	7647-14-5	Listed	Not Listed	Listed	Active	231-598-3	Not Listed	Not Listed
Potassium Phosphate, Monobasic	7778-77-0	Listed	Not Listed	Listed	Active	231-913-4	Not Listed	Not Listed
Potassium Chloride	7447-40-7	Listed	Not Listed	Listed	Active	231-211-8	Not Listed	Not Listed
Sodium Phosphate, Dibasic	7558-79-4	Listed	Not Listed	Listed	Active	231-448-7	Not Listed	Not Listed

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<u>Component</u>	<u>CAS-No</u>	IECSC	<u>KECL</u>	ENCS	<u>ISHL</u>	<u>TCSI</u>	<u>NZIoC</u>	PICCS
Water	7732-18-5	Listed	KE-35400	Listed	Not Listed	Listed	Listed	Listed
Sodium Chloride	7647-14-5	Listed	KE-31387	Listed	Listed	Listed	Listed	Listed
Potassium Phosphate, Monobasic	7778-77-0	Listed	KE-28622	Listed	Listed	Listed	Listed	Listed
Potassium Chloride	7447-40-7	Listed	KE-29086	Listed	Listed	Listed	Listed	Listed
Sodium Phosphate, Dibasic	7558-79-4	Listed	KE-12344	Listed	Listed	Listed	Listed	Listed

Canada: SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

Other International Regulations: Authorization/Restrictions according to EU REACH Safety, health and environmental regulations/legislation specific for the substance or mixture.

<u>Component</u>	CAS-No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Water	7732-18-5	Listed	Not Applicable	Not Applicable	Not Applicable
Sodium Chloride	7647-14-5	Listed	Not Applicable	Not Applicable	Not Applicable
Potassium Phosphate, Monobasic	7778-77-0	Listed	Not Applicable	Not Applicable	Not Applicable
Potassium Chloride	7447-40-7	Listed	Not Applicable	Not Applicable	Not Applicable
Sodium Phosphate, Dibasic	7558-79-4	Listed	Not Applicable	Not Applicable	Not Applicable

<u>Component</u>	<u>CAS-No</u>	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Water	7732-18-5	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Sodium Chloride	7647-14-5	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Potassium Phosphate, Monobasic	7778-77-0	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Potassium Chloride	7447-40-7	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Sodium Phosphate, Dibasic	7558-79-4	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Sorensen's Buffer

SARA 302: This product and components are not subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This product does not contain any components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312: No SARA Hazard

SECTION 16: Other information	
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Data sources	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixturejs, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Abbreviations and acronyms	ADR (Accord européen relatif au transport international des marchandises Dangereuses par Route). CAS (Chemical Abstracts Service) number. IARC (International Agency for Research on Cancer). IATA (International Air Transport Association). IMDG (International Maritime Dangerous Goods Code). RID (Règlement concernant le transport international ferroviaire de marchandises).
Other information	: None

NCEC SDS EU (REACH ANNEX II)

The information and recommendations contained herein are based upon data believed to be up-to-date and correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information and recommendations contained herein. We accept no responsibility and disclaim all liability for any harmful effects that may be caused by (incorrect) use, handling, purchase, resale, or exposure to our product. Customers and users of our product must comply with all applicable health and safety laws, regulations, and orders. In particular, they are under an obligation to carry out a risk assessment for the particular work places and to take adequate risk management measures in accordance with the national implementation legislation of EU Directives 89/391 and 98/24.