Buffered Neutral Formalin 10%

1. Product and company identification

Product name	:	Buffered Neutral Formalin 10%
Product code	:	R04586
Supplier	:	EMD Millipore Corp. 290 Concord Rd. Billerica, MA 01821 1-978-715-1335 Technical Service Monday - Friday: 8:00 - 6:00 PM EST
Synonym	:	None.
Material uses	:	Other non-specified industry: IVD Reagent
Validation date	:	5/3/2016.
In case of emergency	:	800-424-9300 CHEMTREC (USA) 613-996-6666 CANUTEC (Canada) 24 Hours/Day: 7 Days/Week

2. Hazards identification

Emergency overview	: \	WARNING!
	 	CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER. HARMFUL IF INHALED, ABSORBED THROUGH SKIN OR SWALLOWED. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: MUCOUS MEMBRANES, GASTROINTESTINAL TRACT, RESPIRATORY TRACT, SKIN, CENTRAL NERVOUS SYSTEM, EYE, LENS OR CORNEA. CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: NERVOUS SYSTEM.
		WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.
	ι	Do not breathe vapor or mist. Do not ingest. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
Physical state	: L	Liquid.
OSHA/HCS status		This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Routes of entry	: [Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effe	<u>cts</u>	
Inhalation	: 7	Toxic by inhalation. Irritating to respiratory system.
Ingestion	: 1	Toxic if swallowed.
Skin	: 1	Toxic in contact with skin. Irritating to skin.
Eyes	: 1	Irritating to eyes.
Potential chronic health ef	fects	
Carcinogenicity		Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: 1	No known significant effects or critical hazards.
Teratogenicity	: 1	No known significant effects or critical hazards.
Developmental effects	: 1	No known significant effects or critical hazards.
Fertility effects	: 1	No known significant effects or critical hazards.
Target organs	ι	May cause damage to the following organs: mucous membranes, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea. Contains material which may cause damage to the following organs: the nervous system

2. Hazards identification

Medical conditions aggravated by overexposure : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (section 11)

3. Composition/information on ingredients		
Name	CAS number	<u>% by weight</u>
Water	7732-18-5	>94
Formaldehyde	50-00-0	3 - 4
Methanol	67-56-1	1 - 2
Sodium Phosphate, Dibasic	7558-79-4	<1
Phosphoric acid, monosodium salt, monohydrate	10049-21-5	<1

4. First aid measures

: Check for and remove any contact lenses. Immediately flush eyes with plenty of water Eye contact for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately. : In case of contact, immediately flush skin with plenty of water for at least 15 minutes Skin contact while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately. : Move exposed person to fresh air. If not breathing, if breathing is irregular or if Inhalation respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately. : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical Ingestion personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. Fire-fighting measures

Flammability of the product	: In a fire or if heated, a pressure increase will occur and the container may burst.
Extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Not suitable	: None known.
Special exposure hazards	 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.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Special remarks on fire hazards	: Development of hazardous combustion gases or vapors possible in the event of fire.

6. Accidental release measures

Personal precautions	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate . Put on appropriate personal protective equipment (see Section 8).
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods for cleaning up	

6. Accidental release measures

Spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal . Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

7. Handling and storage

Handling

: Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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.

Storage

: Store in accordance with local regulations. Store in original container, protected from direct sunlight. 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.

8. Exposure controls/personal protection

Ingredient	Exposure limits
Formaldehyde	ACGIH TLV (United States, 3/2015). Skin sensitizer. Inhalation sensitizer. C: 0.3 ppm C: 0.37 mg/m ³ OSHA PEL 1989 (United States, 3/1989). TWA: 0.75 ppm 8 hour(s). STEL: 2 ppm 15 minute(s). OSHA PEL Z2 (United States, 2/2013). TWA: 0.75 ppm 8 hour(s). STEL: 2 ppm 15 minute(s). NIOSH REL (United States, 10/2013). TWA: 0.016 ppm 10 hour(s). CEIL: 0.1 ppm 15 minute(s). OSHA PEL (United States, 2/2013). TWA: 0.75 ppm 8 hour(s). STEL: 2 ppm 15 minute(s). OSHA PEL (United States, 2/2013). TWA: 0.75 ppm 8 hour(s). STEL: 2 ppm 15 minute(s).
Methanol	ACGIH TLV (United States, 3/2015). Absorbed through skin. TWA: 200 ppm 8 hour(s). TWA: 262 mg/m ³ 8 hour(s). STEL: 250 ppm 15 minute(s). STEL: 328 mg/m ³ 15 minute(s). OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. TWA: 200 ppm 8 hour(s). TWA: 260 mg/m ³ 8 hour(s). STEL: 250 ppm 15 minute(s). STEL: 325 mg/m ³ 15 minute(s). NIOSH REL (United States, 10/2013). Absorbed through skin. TWA: 200 ppm 10 hour(s). TWA: 260 mg/m ³ 10 hour(s). STEL: 250 ppm 15 minute(s). STEL: 325 mg/m ³ 15 minute(s). STEL: 250 ppm 15 minute(s). STEL: 250 ppm 15 minute(s). STEL: 250 ppm 15 minute(s). STEL: 325 mg/m ³ 15 minute(s). STEL: 325 mg/m ³ 15 minute(s). TWA: 260 mg/m ³ 15 minute(s). TWA: 200 ppm 8 hour(s). TWA: 200 ppm 8 hour(s). TWA: 200 ppm 8 hour(s). TWA: 260 mg/m ³ 8 hour(s).

Consult local authorities for acceptable exposure limits.

8. Exposure controls/personal protection

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Engineering measures	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
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.
Personal protection	
Respiratory	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hands	: 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. Recommended: nitrile rubber
Eyes	 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 or dusts. Recommended: splash goggles
Skin	: 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. Recommended: lab coat
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.

9. Physical and chemical properties

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Physical state	: Liquid.
Flash point	: [Product does not sustain combustion.]
Color	: Clear. Colorless.
Odor	: Pungent.
рН	: 7
Boiling/condensation point	: Not available.
Melting/freezing point	: Not available.
Relative density	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Odor threshold	: Not available.
Evaporation rate	: 0.36 (Water) compared with(n-Butyl Acetate =1)
VOC	: 5 % (w/w)
Solubility	: Soluble in the following materials: water

10. Stability and reactivity

Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Hazardous polymerization Conditions to avoid	 Under normal conditions of storage and use, hazardous polymerization will not occur. No specific data.

10. Stability and reactivity

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Materials to avoid	 Highly reactive or incompatible with the following materials: oxidizing materials, acids and alkalis. Reactive or incompatible with the following materials: metals.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Conditions of reactivity	 Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts and oxidizing materials.
	Highly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts and oxidizing materials.

11. Toxicological information

Acute toxicity

Product/ingredient name Formaldehyde

Test Route	Species	Result
LD50 Dermal	Rabbit	270 mg/kg
LD50 Dermal	Rabbit	270 uĽ/kg
LD50 Intravenous	Rat	87 mg/kg
LD50 Oral	Rat	500 mg/kg
LD50 Oral	Guinea pig	260 mg/kg
LD50 Oral	Rat	100 mg/kg
LD50 Oral	Mouse	42 mg/kg
LD50	Rat	0.42 g/kg
Subcutaneous		5
LD50	Rat	420 mg/kg
Subcutaneous		
LDLo Oral	Woman	108 mg/kg
LDLo Oral	Woman	108 mg/kg
TDLo Dermal	Rat	2 mg/kg
TDLo Intradermal	Rat	5.3 mg/kg
TDLo Parenteral	Rat	10 mg/kg
TDLo	Rat	0.009 g/kg
Subcutaneous		olooo ghig
TDLo	Rat	10 mg/kg
Subcutaneous		io mg/ng
TDLo	Rat	3.76 mg/kg
Subcutaneous		on o mgrag
TDLo	Rat	2.5 mg/kg
Subcutaneous		
TDLo	Rat	1.25 mg/kg
Subcutaneous		5 5 5
TDLo	Rat	1 mg/kg
Subcutaneous		0 0
TDLo	Rat	0.83 mg/kg
Subcutaneous		0.0
TDLo	Rat	10.42 uL/kg
Subcutaneous		
LC50 Inhalation	Rat	578 mg/m3
Vapor		
LC50 Inhalation	Rat	815 ppm
Gas.		
LC50 Inhalation	Rat	250 ppm
Gas.		
LC50 Inhalation	Rat	250 ppm
Gas.		
LD50 Dermal	Rabbit	15800 mg/kg
LD50	Rat	7529 mg/kg
Intraperitoneal		
LD50 Intravenous	Rat	2131 mg/kg

Methanol

11. Toxicological information

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64000 ppm
145000 ppm
6825 mg/kg
3500 mg/kg
3 g/kg
8 g/kg
3000 mg/kg
3490 mg/kg
143 mg/kg
5628 mg/kg 5600 mg/kg
14200 mg/kg
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Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity

No known significant effects or critical hazards.

Teratogenicity

No known significant effects or critical hazards.

R04586

12. Ecological information

Aquatic ecotoxicity

Product/ingredient name
Formaldehyde

Result	Species	Exposure
Acute EC50 14.6 mg/L	Daphnia	48 hours
Acute EC50 14 mg/L	Daphnia	48 hours
Acute EC50 12.98 mg/L	Crustaceans - Water flea -	48 hours
Fresh water	Ceriodaphnia dubia - Neonate - <24 hours	
Acute EC50 5.8 mg/L	Daphnia	48 hours
Acute EC50 3.54 mg/L	Algae - Green algae -	72 hours
Fresh water	Desmodesmus subspicatus	72 hours
Acute EC50 3.48 mg/L Fresh water	Algae - Green algae - Desmodesmus subspicatus	72 Hours
Acute EC50 3.29 mg/L	Algae - Diatom -	96 hours
Marine water	Phaeodactylum tricornutum -	
	Exponential growth phase - 4 to 5 days	
Acute EC50 3.05 mg/L	Algae - Haptophyte -	96 hours
Marine water	Isochrysis galbana -	
	Exponential growth phase -	
Aguta ECEO O 788 mg/l	4 to 5 days Algae - Green algae - Ulva	96 hours
Acute EC50 0.788 mg/L Marine water	pertusa	90 110015
Acute EC50 14.6 ppm	Daphnia - Water flea -	48 hours
Fresh water Acute EC50 29000 ug/L	Daphnia magna - <24 hours Daphnia - Water flea -	48 hours
Fresh water	Daphnia magna - Juvenile (40 110015
	Fledgling, Hatchling,	
	Weanling)	
Acute EC50 14000 ug/L	Daphnia - Water flea -	48 hours
Fresh water	Daphnia magna	
Acute EC50 5800 ug/L Fresh water	Daphnia - Water flea -	48 hours
FIESH Waler	Daphnia pulex - Neonate - < 24 hours	
Acute LC50 1.79 mg/L	Fish	96 hours
Acute LC50 1.51 mg/L	Fish	96 hours
Acute LC50 1.41 mg/L	Fish	96 hours
Acute LC50 2.24 ppm	Fish - Rainbow	96 hours
Fresh water	trout,donaldson trout - Oncorhynchus mykiss	
Acute LC50 1.79 ppm	Fish - Bluegill - Lepomis	96 hours
Fresh water	macrochirus	50 110013
Acute LC50 1.51 ppm	Fish - Bluegill - Lepomis	96 hours
Fresh water	macrochirus	
Acute LC50 1.41 ppm	Fish - Rainbow	96 hours
Fresh water	trout,donaldson trout - Oncorhynchus mykiss	
Acute LC50 4960 ug/L	Fish - Striped bass - Morone	96 hours
Fresh water	saxatilis - Fingerling - 1 to 2	
	months - 5.7 to 6.8 cm - 1.8	
	to 3.5 g	
Acute LC50 1299 ul/L	Crustaceans - Brine shrimp -	48 hours
Marine water Acute LC50 1265 ul/L	Artemia sp. Crustaceans - Brine shrimp -	18 hours
Marine water	Artemia sp.	40 110015
Acute LC50 1170 ul/L	Crustaceans - Brine shrimp -	48 hours
Marine water	Artemia sp.	
Chronic NOEC 0.438 mg/	Algae - Green algae - Ulva	96 hours
L Marine water Chronic NOEC 0.005 mg/	pertusa Algae - Haptophyte -	96 hours
L Marine water	Isochrysis galbana -	50 110013
	, ,	

12. Ecological information

		Exponential growth phase - 4 to 5 days	
	Chronic NOEC 953.9 ppm Fresh water	Fish - Chinook salmon - Oncorhynchus tshawytscha - Egg	43 days
	Chronic NOEC 1000 ug/L Marine water		96 hours
Methanol	Acute EC50 22200 to 23400 mg/L Fresh water	Daphnia - Water flea - Daphnia obtusa - Neonate - <24 hours	48 hours
	Acute EC50 16000 mg/L	Fish	48 hours
	Acute EC50 13200 mg/L	Fish	48 hours
	Acute EC50 >10000 mg/L		48 hours
	Acute EC50 16.912 mg/L	Algae - Green algae - Ulva	96 hours
	Marine water	pertusa	
	Acute EC50 24500000 to 29350000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Larvae - < 24 hours	48 hours
	Acute EC50 13000000 ug L Fresh water	trout,donaldson trout - Oncorhynchus mykiss -	96 hours
		Juvenile (Fledgling, Hatchling, Weanling) - 0.813 g	
	Acute EC50 12700000 ug L Fresh water	 Fish - Bluegill - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling) - 3.07 g 	96 hours
	Acute LC50 15.32 g/L Fresh water	Fish - Mozambique tilapia - Oreochromis mossambicus - Adult - 78.5 mm - 7.8 g	96 hours
	Acute LC50 15400 mg/L Acute LC50 3289 to 4395 mg/L Fresh water	Fish Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	96 hours 48 hours
	Acute LC50 290 mg/L Fresh water	Fish - Zebra danio - Danio rerio - Egg - stage	96 hours
	Acute LC50 >100 mg/L	Daphnia	96 hours
	Acute LC50 >100 mg/L	Fish	96 hours
	Acute LC50 15400000 ug/ L Fresh water	Fish - Bluegill - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling) - 3.07 g	96 hours
	Acute LC50 2500000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon - Adult	48 hours
	Chronic NOEC 9.96 mg/L Marine water	Algae - Green algae - Ulva pertusa	96 hours
	Chronic NOEC 1400 ppm Fresh water	•	96 hours
	Chronic NOEC 410 ppm Fresh water	Algae - Dinoflagellate - Prorocentrum minimum	96 hours
	Chronic NOEC 71 ppm Fresh water	Algae - Algae - Heterosigma akashiwo	96 hours
	Chronic NOEC 24 ppm Fresh water	Algae - Euglenoid - Eutreptiella sp.	96 hours
	o known significant effects or critical	hazards.	
Other adverse effects : N	o known significant effects or critical	hazards.	

13. Disposal considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	-	CHEMICALS, N.O.S.	-	-		-

PG* : Packing group

15. Regulatory information

United States

onited otates			
HCS Classification	: Toxic material Irritating material Carcinogen Target organ effects		
U.S. Federal regulations	: TSCA 8(a) IUR: Partial exemption United States inventory (TSCA 8b):		
	TSCA (Toxic Substance Control Act): This product is listed on the TSCA Inventory. SARA 302/304/311/312 extremely hazardous substances: Formaldehyde SARA 302/304 emergency planning and notification: Formaldehyde SARA 302/304/311/312 hazardous chemicals: Formaldehyde; Methanol SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Formaldehyde: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; Methanol: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard		
	Clean Water Act (CWA) 307: No products were f Clean Water Act (CWA) 311: Formaldehyde; So		Dibasic
	Clean Air Act (CAA) 112 accidental release pro Clean Air Act (CAA) 112 regulated flammable su Clean Air Act (CAA) 112 regulated toxic subst	evention: No prod	ucts were found. ucts were found.
DEA List I Chemicals (Precursor Chemicals)	: Not listed		
DEA List II Chemicals (Essential Chemicals)	: Not listed		
<u>SARA 313</u>			
Form R - Reporting requirements	 <u>Product name</u> Formaldehyde Methanol 	<u>CAS number</u> 50-00-0 67-56-1	<u>Concentration</u> 3 - 4 1 - 2
Supplier notification	: Formaldehyde Methanol	50-00-0 67-56-1	3 - 4 1 - 2
SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.			
Connecticut Carcinogen Reporting	: None of the components are listed.		
Connecticut Hazardous Material Survey	: None of the components are listed.		
Florida substances	: None of the components are listed.		
Illinois Chemical Safety Act	: None of the components are listed.		

Continued on next page

15. Regulatory information

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Illinois Toxic Substances Disclosure to Employee Act	: None of the componer	nts are listed.		
Louisiana Spill	: None of the componer	nts are listed.		
Louisiana Reporting	: None of the componer	nts are listed.		
Massachusetts Spill	: None of the componer	nts are listed.		
Massachusetts Substances	: The following component	ents are listed: Forn	naldehyde; Methanol	
Minnesota Hazardous Substances	: None of the componer	nts are listed.		
Michigan Critical Material	: None of the componer	nts are listed.		
New Jersey Toxic Catastrophe Prevention Act	: None of the componer	nts are listed.		
New Jersey Spill	: None of the componer	nts are listed.		
New Jersey Hazardous Substances	: The following component	ents are listed: Buff	ered Neutral Formalin 1	0%
New York Toxic Chemical Release Reporting	: None of the componer	nts are listed.		
New York Acutely Hazardous Substances	: The following compon	ents are listed: Forn	naldehyde; Methanol	
Pennsylvania RTK Hazardous Substances	: The following compon	ents are listed: Forn	naldehyde; Methanol	
Rhode Island Hazardous Substances	: None of the componer	nts are listed.		
California Prop. 65				
WARNING: This product con reproductive harm.	ains a chemical known to	o the State of Califor	rnia to cause cancer and	d birth defects or other
Ingredient name	<u>Cancer</u>	Reproductive	No significant risk	Maximum
			level	<u>acceptable dosage</u> level

Ingredient name	Cancer	Reproductive	NO SIGNIFICANT FISK	Maximum
			level	acceptable dosage
				level
Formaldehyde	Yes.	No.	Yes.	No.
Methanol	No.	Yes.	No.	23000 μg/day (ingestion) 47000 μg/day (inhalation)
<u>Canada</u>				
WHMIS (Canada)		ial causing other toxic ial causing other toxic		
Canadian lists	: CEPA Toxic substances: The following components are listed: Formaldehyde			

Canadian ARET: None of the components are listed. Canadian NPRI: The following components are listed: Formaldehyde; Methanol Alberta Designated Substances: None of the components are listed. Ontario Designated Substances: None of the components are listed. Quebec Designated Substances: None of the components are listed.

CEPA DSL / CEPA NDSL

: All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

EU regulations

Hazard symbol or symbols :



15. Regulatory information

Risk phrases	 R45- May cause cancer. R68- Possible risk of irreversible effects. R20/21/22- Also harmful by inhalation, in contact with skin and if swallowed. R43- May cause sensitization by skin contact.
Safety phrases	 S53- Avoid exposure - obtain special instructions before use. S36/37- Wear suitable protective clothing and gloves.
International regulations	
International lists	 Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): Not determined. Japan inventory: All components are listed or exempted. Korea inventory: All components are listed or exempted. New Zealand Inventory of Chemicals (NZIoC): Not determined. Philippines inventory (PICCS): All components are listed or exempted.

16. Other information

National Fire Protection Association (U.S.A.)



Notice to reader

The statements contained herein are based upon technical data that EMD Millipore Corp. believes to be reliable, are offered for information purposes only and as a guide to the appropriate precautionary and emergency handling of the material by a properly trained person having the necessary technical skills. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use, storage and disposal of these materials and the safety and health of employees and customers and the protection of the environment. EMD MILLIPORE CORP. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, WITH RESPECT TO THE INFORMATION HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS.