

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 11/8/2023 Version: 1.0

SECTION 1: Identification

SECTION 1: Identification		
1.1. Identification		
Product form Product name Product code	: Mixture : Dilurex 10X TEA Wash Buffer : 4Z2005 - all sizes	
1.2. Recommended use and restrictions o	n use	
Use of the substance/mixture Restrictions on use	: For laboratory and manufacturing use only : Not for food, drug or household use	
1.3. Supplier		
Exocell Ethos Biosciences, Inc. 2070 Center Square Road Logan Township, New Jersey 08085 United States T +1-856-224-0900; +1-800-441-0366 Technical S www.ethosbiosciences.com	Service; Monday-Friday: 8:00 AM-5:00 PM, Eastern US Time	
1.4. Emergency telephone number		
Emergency number	: 800-424-9300 CHEMTREC (USA) 24 Hours/Day, 7 Days/Week	
SECTION 2: Hazard(s) identification		
2.1. Classification of the substance or mix	xture	
GHS US classification Not classified		
2.2. GHS Label elements, including precautionary statements		
GHS US labeling No labeling applicable		
2.3. Other hazards which do not result in classification		
No additional information available		
2.4. Unknown acute toxicity (GHS US)		
00% of the mixture consists of ingredient(e) of unknown courts toxicity (Orel)		

98% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)98% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)98% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	GHS US classification
Deionized Water	CAS-No.: 7732-18-5	> 87	Not classified
sodium chloride	CAS-No.: 7647-14-5	< 9	Not classified
triethanolamine	CAS-No.: 102-71-6	< 2	Not classified
Proclin 300	CAS-No.: 55965-84-9	< 1	Not classified
TWEEN 20	CAS-No.: 9005-64-5	0.5	Not classified
sodium hydroxide	CAS-No.: 1310-73-2	< 0.25	Met. Corr. 1, H290 Acute Tox. 4 (Dermal), H312 Skin Corr. 1, H314 Eye Dam. 1, H318

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a physician immediately. Call a doctor.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Call a physician immediately. Rinse skin with water/shower.
First-aid measures after eye contact	 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Call a physician immediately. Do not induce vomiting.
4.2. Most important symptoms and effe	ects (acute and delayed)
Symptoms/effects after skin contact	: Burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact Symptoms/effects after ingestion	Serious damage to eyes.Burns.
4.3. Immediate medical attention and s	pecial treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Specific hazards arising from the chemical		
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Special protective equipment and precautions for fire-fighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

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SECTION 6: Accidental release measu	res	
6.1. Personal precautions, protective equip	ment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and material for containment	and cleaning up	
For containment Methods for cleaning up Other information	 Collect spillage. Take up liquid spill into absorbent material. Dispose of materials or solid residues at an authorized site. 	
6.4. Reference to other sections		
For further information refer to section 13.		
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling Hygiene measures	 Ensure good ventilation of the work station. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Always wash hands after handling the 	
	product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage conditions	: Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.	
SECTION 8: Exposure controls/person	al protection	
8.1. Control parameters		

sodium hydroxide (1310-73-2)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL C	2 mg/m ³	
triethanolamine (102-71-6)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	5 mg/m³	
8.2. Appropriate engineering controls		
	Ensure good ventilation of the work station. Avoid release to the environment.	

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8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. [In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear, colorless liquid.
Color	Colorless
Odor	odorless
Odor threshold	No data available
pH	6.7 – 6.9
Melting point	Not applicable
Freezing point :	No data available
Boiling point :	No data available
Flash point :	No data available
Relative evaporation rate (butyl acetate=1)	No data available
Flammability (solid, gas)	Non flammable.
Vapor pressure	No data available
Relative vapor density at 20°C	No data available
Relative density	No data available
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosion limits	No data available
Explosive properties :	No data available
Oxidizing properties	No data available
sodium chloride	
Boiling point	1461 °C
Flash point	Not applicable
Auto-ignition temperature	Not applicable

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sodium chloride	
Vapor pressure	Not applicable (solid)
TWEEN 20	
Flash point	148 °C
Vapor pressure	< 1.3 hPa (20 °C)
sodium hydroxide	
Boiling point	1388 °C (1013 hPa)
Flash point	Not applicable (solid)
Auto-ignition temperature	No data available in the literature
Vapor pressure	< 0.01 hPa (25 °C)
Proclin 300	
Boiling point	No data available in the literature
Flash point	Not applicable (solid)
Auto-ignition temperature	No data available in the literature
Vapor pressure	No data available in the literature
triethanolamine	
Boiling point	336 °C (1013 hPa)
Flash point	179 °C (Closed cup, 1013 hPa)
Auto-ignition temperature	324 °C (1013 hPa, T2)
Vapor pressure	0.019 hPa (20 °C)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

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10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (dermal) :	Not classified Not classified Not classified	
Dilurex 10X TEA Wash Buffer		
Unknown acute toxicity (GHS US)	 98% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 98% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 98% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist)) 	
sodium chloride (7647-14-5)		
LD50 oral rat	> 3980 mg/kg body weight (Rat, Experimental value, 20% aqueous solution, Oral)	
LD50 dermal rabbit	> 10000 mg/kg (Rabbit, Experimental value, Dermal)	
LC50 Inhalation - Rat	> 42 mg/l air (1 h, Rat, Male, Experimental value, 20% aqueous solution, Inhalation (aerosol))	
sodium hydroxide (1310-73-2)		
ATE US (dermal)	1100 mg/kg body weight	
Proclin 300 (55965-84-9)		
LD50 oral rat	66 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Calculated by reference to active substance, Oral, 14 day(s))	
LD50 dermal rat	> 141 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))	
LC50 Inhalation - Rat	0.17 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Calculated by reference to active substance, Inhalation (dust), 14 day(s))	
triethanolamine (102-71-6)		
LD50 oral rat	6400 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 7 day(s))	
LD50 dermal rabbit	> 2000 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Experimental value, Dermal, 14 day(s))	
Skin corrosion/irritation :	Not classified pH: 6.7 – 6.9	
sodium chloride (7647-14-5)		
рН	7.5 (18 °C)	
TWEEN 20 (9005-64-5)		
рН	6 (10 %)	
sodium hydroxide (1310-73-2)		
рН	14 (5 %)	

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pH No data available in the literature triethanolamine (102-71-6) I1 (25 %) Serious eye damage/irritation : Not classified pH 11 (25 %) Serious eye damage/irritation : Not classified pH: 6.7 – 6.9 pH sodium chloride (7647-14-5) pH pH 7.5 (18 °C) TWEEN 20 (9005-64-5) pH pH 6 (10 %) sodium hydroxide (1310-73-2) pH pH 14 (5 %) Proclin 300 (55965-84-9) pH pH 11 (25 %) Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified StOT-repeated exposure : Not classified	
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STOT-single exposure : Not classified STOT-repeated exposure : Not classified	
STOT-repeated exposure : Not classified	
Viscosity, kinematic : No data available	
sodium chloride (7647-14-5)	
Viscosity, kinematic Not applicable (solid)	
TWEEN 20 (9005-64-5)	
Viscosity, kinematic 363.636 mm²/s	
sodium hydroxide (1310-73-2)	
Viscosity, kinematic No data available in the literature	
Proclin 300 (55965-84-9)	
Viscosity, kinematic Not applicable (solid)	
triethanolamine (102-71-6)	
Viscosity, kinematic 830.2 mm²/s (20 °C, Equivalent or similar to OECD 114)	
Symptoms/effects after skin contact : Burns. May cause an allergic skin reaction.	
Symptoms/effects after eye contact : Serious damage to eyes.	
Symptoms/effects after ingestion : Burns.	

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SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general :	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Very toxic to aquatic life with long lasting effects.	
sodium chloride (7647-14-5)		
LC50 - Fish [1]	5840 mg/l (ASTM, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)	
sodium hydroxide (1310-73-2)		
LC50 - Fish [1]	189 mg/l (48 h, Leuciscus idus, Fresh water, Experimental value)	
EC50 - Crustacea [1]	40 mg/l (48 h, Ceriodaphnia sp., Experimental value, Locomotor effect)	
Proclin 300 (55965-84-9)		
LC50 - Fish [1]	0.19 mg/l (EPA OPP 72-1, 96 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value, GLP)	
EC50 - Crustacea [1]	0.007 mg/l (48 h, Acartia tonsa, Salt water, Experimental value, GLP)	
ErC50 algae	19.9 μg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Skeletonema costatum, Static system, Salt water, Experimental value, GLP)	
triethanolamine (102-71-6)		
LC50 - Fish [1]	11800 mg/l (APHA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Nominal concentration)	
EC50 - Crustacea [1]	609.88 mg/l (ASTM E1192, 48 h, Ceriodaphnia dubia, Static system, Fresh water, Experimental value, Lethal)	
ErC50 algae	216 mg/l (DIN 38412-9, 72 h, Scenedesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)	

12.2. Persistence and degradability

Dilurex 10X TEA Wash Buffer		
Persistence and degradability	Not rapidly degradable	
sodium chloride (7647-14-5)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	
TWEEN 20 (9005-64-5)		
Persistence and degradability	Readily biodegradable in water.	
sodium hydroxide (1310-73-2)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	
Proclin 300 (55965-84-9)		
Persistence and degradability	Not readily biodegradable in water.	

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Deionized Water (7732-18-5)				
Persistence and degradability	Not rapidly degradable			
triethanolamine (102-71-6)				
Persistence and degradability	Biodegradable in the soil, No inhibition of nitrification, Readily biodegradable in water.			
Biochemical oxygen demand (BOD)	0.02 g O ₂ /g substance			
Chemical oxygen demand (COD)	1.5 g O ₂ /g substance			
ThOD	2.04 g O ₂ /g substance			
12.3. Bioaccumulative potential				
sodium chloride (7647-14-5)				
Bioaccumulative potential	Not bioaccumulative.			
TWEEN 20 (9005-64-5)				
Bioaccumulative potential	No bioaccumulation data available.			
sodium hydroxide (1310-73-2)				
Bioaccumulative potential	Not bioaccumulative.			
Proclin 300 (55965-84-9)				
BCF - Fish [1]	41 – 54 (OECD 305: Bioconcentration: Flow-Through Fish Test, 28 day(s), Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Fresh weight)			
Partition coefficient n-octanol/water (Log Pow)	-0.32 – 0.7 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 20 °C)			
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).			
triethanolamine (102-71-6)				
BCF - Fish [1]	0.4 – 3.9 l/kg (Equivalent or similar to OECD 305, 6 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value)			
Partition coefficient n-octanol/water (Log Pow)	-1.9 (Weight of evidence approach, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)			
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).			
12.4. Mobility in soil				
sodium chloride (7647-14-5)				
Surface tension	73.03 mN/m (23 °C, 14.5 g/l)			
Ecology - soil	No (test)data on mobility of the substance available.			
sodium hydroxide (1310-73-2)				
Surface tension	No data available in the literature			
Ecology - soil	No (test)data on mobility of the substance available.			
Proclin 300 (55965-84-9)				

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Proclin 300 (55965-84-9)		
Ecology - soil	Highly mobile in soil.	
triethanolamine (102-71-6)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.06 – 1.27 (log Koc, SRC PCKOCWIN v1.66, Calculated value)	
Ecology - soil	Highly mobile in soil.	
12.5. Other adverse effects		

No additional information available

SECTION 13: Disposal considerations	S
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
In accordance with DOT / TDG / IMDG / IATA	
14.1. UN number	
Not regulated for transport	
14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	 Not regulated Not regulated Not regulated Not regulated
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT)	: Not regulated
TDG Transport hazard class(es) (TDG)	: Not regulated
IMDG Transport hazard class(es) (IMDG)	: Not regulated
IATA Transport hazard class(es) (IATA)	: Not regulated
14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	 Not regulated Not regulated Not regulated Not regulated Not regulated
14.5. Environmental hazards	
Other information	: No supplementary information available.

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14.6. Special precautions for user

DOT

Not regulated

TDG

Not regulated

IMDG Not regula

Not regulated

IATA Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

sodium chloride	CAS-No. 7647-14-5	< 9%
TWEEN 20	CAS-No. 9005-64-5	0.5%
sodium hydroxide	CAS-No. 1310-73-2	< 0.25%
Proclin 300	CAS-No. 55965-84-9	< 1%
triethanolamine	CAS-No. 102-71-6	< 2%

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

Deionized Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Deionized Water (7732-18-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

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SECTION 16: Other information

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Full text of H-phrases	
H290	May be corrosive to metals
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

Abbreviation	Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	

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Abbreviations and acronyms	
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Safety Data Sheet (SDS), USA

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