

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

1.1. Identification

Product form : Mixture

Product name : Dilurex 1X Imidazole Wash Buffer

Product code : 4Z1010 - all sizes

1.2. Recommended use and restrictions on use

Use of the substance/mixture : For laboratory and manufacturing use only Restrictions on use : 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 Service; Monday-Friday: 8:00 AM-5:00 PM, Eastern US Time

www.ethosbiosciences.com

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 mixture

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)

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	> 98	Not classified
sodium chloride	CAS-No.: 7647-14-5	< 1	Not classified
imidazole	CAS-No.: 288-32-4	< 0.1	Not classified
TWEEN 20	CAS-No.: 9005-64-5	< 0.1	Not classified
Proclin 300	CAS-No.: 55965-84-9	≤ 0.05	Not classified
sodium hydroxide	CAS-No.: 1310-73-2	< 0.01	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 after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special 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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

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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

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : 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 : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

sodium hydroxide (1310-73-2)

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL C 2 mg/m³

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

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

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Personal protective equipment symbol(s):







SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Appearance Clear, colorless liquid.

Color Colorless Odor odorless

Odor threshold No data available

7.1 - 7.3рΗ

Melting point No data available 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) : Not applicable. 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 No data available Viscosity, kinematic Viscosity, dynamic : No data available : No data available **Explosion limits** Explosive properties : No data available Oxidizing properties : No data available

imidazole	
Boiling point	268 °C (1013 hPa, Equivalent or similar to OECD 104)
Flash point	145 °C (Closed cup)
Auto-ignition temperature	480 °C (T1)
Vapor pressure	0.003 hPa (20 °C, OECD 104: Vapour Pressure)

TWEEN 20	
Flash point	148 °C
Vapor pressure	< 1.3 hPa (20 °C)

sodium chloride	
Boiling point	1461 °C
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Vapor pressure	Not applicable (solid)

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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

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).

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 (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

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Dilurex 1X Imidazole 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))	
imidazole (288-32-4)		
LD50 oral rat	970 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 7 day(s))	
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))	
Skin corrosion/irritation :	Not classified pH: 7.1 – 7.3	
imidazole (288-32-4)		
рН	10.5 (7 %)	
TWEEN 20 (9005-64-5)		
рН	6 (10 %)	
sodium chloride (7647-14-5)		
рН	7.5 (18 °C)	
sodium hydroxide (1310-73-2)		
рН	14 (5 %)	
Proclin 300 (55965-84-9)		
рН	No data available in the literature	
Serious eye damage/irritation :	Not classified pH: 7.1 – 7.3	
imidazole (288-32-4)		
рН	10.5 (7 %)	
TWEEN 20 (9005-64-5)		
рН	6 (10 %)	
sodium chloride (7647-14-5)		
pH	7.5 (18 °C)	

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Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified			
Proclin 300 (55965-84-9) pH	sodium hydroxide (1310-73-2)		
PH No data available in the literature Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-sepaeted exposure : Not classified Aspiration hazard : Not classified Viscosity, kinematic : No data available Imidazole (288-32-4) Viscosity, kinematic No data available in the literature TWEEN 20 (9005-64-5) Viscosity, kinematic Not applicable (solid) sodium chloride (7647-14-5) Viscosity, kinematic Not applicable (solid) sodium hydroxide (1310-73-2) Viscosity, kinematic No data available in the literature Proclin 300 (55965-84-9)	pH	14 (5 %)	
Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-sepeated exposure : Not classified Aspiration hazard : Not classified Viscosity, kinematic : No data available imidazole (288-32-4) Viscosity, kinematic : No data available in the literature TWEEN 20 (9005-64-5) Viscosity, kinematic : Not applicable (solid) sodium chloride (7647-14-5) Viscosity, kinematic : Not applicable (solid) sodium hydroxide (1310-73-2) Viscosity, kinematic : Not available in the literature Proclin 300 (55965-84-9)	Proclin 300 (55965-84-9)		
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Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified Aspiration hazard : Not classified Viscosity, kinematic : No data available imidazole (288-32-4) Viscosity, kinematic	Respiratory or skin sensitization :	Not classified	
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Viscosity, kinematic : No data available imidazole (288-32-4) Viscosity, kinematic No data available in the literature TWEEN 20 (9005-64-5) Viscosity, kinematic 363.636 mm²/s sodium chloride (7647-14-5) Viscosity, kinematic Not applicable (solid) sodium hydroxide (1310-73-2) Viscosity, kinematic No data available in the literature Proclin 300 (55965-84-9)	STOT-repeated exposure :	Not classified	
imidazole (288-32-4) Viscosity, kinematic No data available in the literature TWEEN 20 (9005-64-5) Viscosity, kinematic 363.636 mm²/s sodium chloride (7647-14-5) Viscosity, kinematic Not applicable (solid) sodium hydroxide (1310-73-2) Viscosity, kinematic No data available in the literature Proclin 300 (55965-84-9)			
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TWEEN 20 (9005-64-5) Viscosity, kinematic 363.636 mm²/s sodium chloride (7647-14-5) Viscosity, kinematic Not applicable (solid) sodium hydroxide (1310-73-2) Viscosity, kinematic No data available in the literature Proclin 300 (55965-84-9)	imidazole (288-32-4)		
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sodium chloride (7647-14-5) Viscosity, kinematic Not applicable (solid) sodium hydroxide (1310-73-2) Viscosity, kinematic No data available in the literature Proclin 300 (55965-84-9)	TWEEN 20 (9005-64-5)		
Viscosity, kinematic Not applicable (solid) sodium hydroxide (1310-73-2) Viscosity, kinematic No data available in the literature Proclin 300 (55965-84-9)	Viscosity, kinematic	363.636 mm²/s	
sodium hydroxide (1310-73-2) Viscosity, kinematic No data available in the literature Proclin 300 (55965-84-9)	sodium chloride (7647-14-5)		
Viscosity, kinematic No data available in the literature Proclin 300 (55965-84-9)	Viscosity, kinematic	Not applicable (solid)	
Proclin 300 (55965-84-9)	sodium hydroxide (1310-73-2)		
	Viscosity, kinematic	No data available in the literature	
Viscosity, kinematic Not applicable (solid)	Proclin 300 (55965-84-9)		
	Viscosity, kinematic	Not applicable (solid)	

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.
imidazole (288-32-4)	
LC50 - Fish [1]	283.6 mg/l (48 h, Leuciscus idus, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	341.5 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	133 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
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)

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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)
12.2. Persistence and degradability	
Dilurex 1X Imidazole Wash Buffer	
Persistence and degradability	Not rapidly degradable
imidazole (288-32-4)	
Persistence and degradability	Readily biodegradable in the soil,Readily biodegradable in water.
TWEEN 20 (9005-64-5)	
Persistence and degradability	Readily biodegradable in water.
sodium chloride (7647-14-5)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
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.
Deionized Water (7732-18-5)	
Persistence and degradability	Not rapidly degradable
12.3. Bioaccumulative potential	
imidazole (288-32-4)	
Partition coefficient n-octanol/water (Log Pow)	-0.02 (Weight of evidence approach, OECD 107: Partition Coefficient (n-octanol/water): Shak Flask Method, 25 °C)
Bioaccumulative potential	Not bioaccumulative.
TWEEN 20 (9005-64-5)	
Bioaccumulative potential	No bioaccumulation data available.

Bioaccumulative potential Not bioaccumulative. TWEEN 20 (9005-64-5) Bioaccumulative potential No bioaccumulation data available. sodium chloride (7647-14-5) Bioaccumulative potential Not bioaccumulative. sodium hydroxide (1310-73-2) Bioaccumulative potential Not bioaccumulative.

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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).

12.4. Mobility in soil

imidazole (288-32-4)		
Surface tension	No data available in the literature	
Organic Carbon Normalized Adsorption Coefficient	1.36 – 2.32 (log Koc, Calculated value)	
(Log Koc)		
Ecology - soil	Low potential for adsorption 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)		
Proclin 300 (55965-84-9)		
Proclin 300 (55965-84-9) Surface tension	No data available in the literature	
Surface tension Organic Carbon Normalized Adsorption Coefficient	No data available in the literature 0.81 – 1 (log Koc, Calculated value)	
Surface tension		

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

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) : Not regulated
Proper Shipping Name (TDG) : Not regulated
Proper Shipping Name (IMDG) : Not regulated

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Proper Shipping Name (IATA) : 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) : Not regulated Packing group (TDG) : Not regulated Packing group (IMDG) : Not regulated Packing group (IATA) : Not regulated

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

Not regulated

TDG

Not regulated

IMDG

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:

(**************************************		
imidazole	CAS-No. 288-32-4	< 0.1%
TWEEN 20	CAS-No. 9005-64-5	< 0.1%
sodium chloride	CAS-No. 7647-14-5	< 1%
sodium hydroxide	CAS-No. 1310-73-2	< 0.01%
Proclin 300	CAS-No. 55965-84-9	≤ 0.05%

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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

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

Safety Data Sheet (SDS), USA

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