

Be Right<sup>™</sup>

# SAFETY DATA SHEET

FRMFTR4

**Issue Date** 25-May-2016 **Revision Date** 25-Oct-2016 **Version** 4 **Page** 1 / 17

### 1. IDENTIFICATION

Product identifier

Product Name Titrant Solution Hardness 3 0.015 M EDTA

Other means of identification

Product Code(s) 42632

Safety data sheet number M00582

Recommended use of the chemical and restrictions on use

**Recommended Use** Laboratory Use. Hardness determination.

Uses advised against None. Restrictions on use None.

Details of the supplier of the safety data sheet

**Manufacturer Address** 

Hach Company P.O.Box 389 Loveland, CO 80539 USA (970) 669-3050

Emergency telephone number

(303) 623-5716 - 24 Hour Service (515)232-2533 - 8am - 4pm CST

# 2. HAZARDS IDENTIFICATION

### Classification

#### **Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not Hazardous Not a dangerous substance or mixture according to the Globally Harmonized System

(GHS)

#### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

#### **Hazard statements**

EUH210 - Safety data sheet available on request

The product contains no substances which at their given concentration, are considered to be hazardous to health

#### **Precautionary statements**

Product Name Titrant Solution Hardness 3 0.015 M EDTA

Revision Date 25-Oct-2016

Page 2/17

### Other Information

Not applicable

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Substance**

Not applicable

### **Mixture**

Percent ranges are used where confidential product information is applicable.

Chemical Name	CAS No	Percent Range	HMRIC #
1,2-Propanediol	57-55-6	20 - 30%	-
Hydrochloric acid	7647-01-0	<0.1%	-

# 4. FIRST AID MEASURES

### **Description of first aid measures**

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible).

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If symptoms persist, call a physician.

Skin contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower. If symptoms persist, call a physician.

**Inhalation** IF INHALED: Remove person to fresh air and keep comfortable for breathing. If symptoms

persist, call a physician.

Ingestion IF SWALLOWED: Rinse Mouth. If symptoms persist, call a physician.

**Self-protection of the first aider**Use personal protective equipment as required. Ensure that medical personnel are aware

of the material(s) involved and take precautions to protect themselves.

Most important symptoms and effects, both acute and delayed

Symptoms See Section 11: TOXICOLOGICAL INFORMATION.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

### Flammable properties

Substance does not burn.

# Specific hazards arising from the chemical

Product Name Titrant Solution Hardness 3 0.015 M EDTA

Revision Date 25-Oct-2016

Page 3/17

This product will not burn or explode.

**Hazardous combustion products** 

This material will not burn.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

U.S. Notice Only persons properly qualified to respond to an emergency involving hazardous

substances may respond to a spill according to federal regulations (OSHA 29 CFR

1910.120(a)(v)) and per your company's emergency response plan and

guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations

should respond to a spill involving chemicals.

**EC Notice**Only persons properly qualified to respond to an emergency involving hazardous

substances should respond to a spill involving chemicals. See Section 13, Special

Instructions for disposal assistance.

WHMIS Notice Only persons properly qualified to respond to an emergency involving hazardous

substances should respond to a spill involving chemicals. See Section 13, Special

Instructions for disposal assistance.

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Do not touch or walk through spilled material. Ventilate

affected area. Use personal protective equipment as required.

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

**Environmental precautions** Avoid release to the environment. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later

disposal.

Methods for cleaning up Neutralize spill if necessary. Soak up with inert absorbent material. Take up mechanically,

placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

Dispose of in accordance with local, state and federal regulations or laws.

Emergency Response Guide Number Not applicable

# 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly

labeled containers.

Flammability class Not applicable

Product Name Titrant Solution Hardness 3 0.015 M EDTA

Revision Date 25-Oct-2016

Page 4/17

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrochloric acid	Ceiling: 2 ppm	(vacated) Ceiling: 5 ppm	IDLH: 50 ppm
<0.1%		(vacated) Ceiling: 7 mg/m <sup>3</sup>	Ceiling: 5 ppm
		Ceiling: 5 ppm	Ceiling: 7 mg/m <sup>3</sup>
		Ceiling: 7 mg/m <sup>3</sup>	

Chemical Name	Alberta OEL	British Columbia OEL	Manitoba OEL	New Brunswick OEL	New Foundland & Labrador OEL
Hydrochloric acid <0.1%	Ceiling: 2 ppm Ceiling: 3 mg/m <sup>3</sup>	Ceiling: 2 ppm	Ceiling: 2 ppm	Ceiling: 5 ppm Ceiling: 7.5 mg/m <sup>3</sup>	Ceiling: 2 ppm

Chemical Name	Northwest Territories OEL	Nova Scotia OEL	Nunavut OEL	Ontario TWA	Prince Edward Island OEL
1,2-Propanediol 20 - 30%	NDF	NDF	NDF	TWA: 10 mg/m <sup>3</sup> TWA: 50 ppm TWA: 155 mg/m <sup>3</sup>	NDF
Hydrochloric acid <0.1%	Ceiling: 2 ppm	Ceiling: 2 ppm	Ceiling: 2 ppm	Ceiling: 2 ppm	Ceiling: 2 ppm

Chemical Name	Quebec OEL	Saskatchewan OEL	Yukon OEL
Hydrochloric acid	Ceiling: 5 ppm	Ceiling: 2 ppm	Ceiling: 5 ppm
<0.1%	Ceiling: 7.5 mg/m <sup>3</sup>		Ceiling: 7 mg/m <sup>3</sup>

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

**Legend** See section 16 for terms and abbreviations

**Appropriate engineering controls** 

Engineering Controls Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear protective gloves and protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or

smoke when using this product. Take off all contaminated clothing and wash it before reuse. Wash hands thoroughly after handling. Regular cleaning of equipment, work area

and clothing is recommended.

### **Environmental exposure controls**

Do not allow into any sewer, on the ground or into any body of water.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Product Name Titrant Solution Hardness 3 0.015 M EDTA

Revision Date 25-Oct-2016

**Page** 5/17

Physical state Liquid

Gas Under Pressure Not classified according to GHS criteria

Appearance aqueous solution Color colorless

Odor None Odor threshold No data available

Property Values Remarks • Method

Molecular weight No data available

**pH** 5.0

Melting point/freezing point ~ -24 °C / -11 °F Estimation based on theoretical

calculation

**Boiling point / boiling range** > ~ 100 °C / 212 °F Estimation based on theoretical

calculation

**Evaporation rate** 0.63 (water = 1)

Vapor pressure 21.902 mm Hg / 2.92 kPa at 25 °C / 77 °F Estimation based on theoretical

calculation

Vapor density (air = 1) 0.62 (air = 1)

Specific gravity (water = 1 / air = 1) 1.026

Partition Coefficient (n-octanol/water) Not applicable

**Soil Organic Carbon-Water Partition** 

**Decomposition temperature** 

Coefficient

Not applicable

No data available

No data available

Autoignition temperature No data available

Dvnamic viscosity No data available

Dynamic viscosity

No data available

# Solubility(ies)

### Water solubility

Kinematic viscosity

Water solubility classification	Water solubility_	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

# Solubility in other solvents

Chemical Name	Solubility classification	<u>Solubility</u>	Solubility Temperature
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

# Other Information

Metal Corrosivity

Not classified as corrosive to metal according to GHS criteria

Steel Corrosion Rate No data available

Product Code(s) 42632 Issue Date 25-May-2016

Version 4

Product Name Titrant Solution Hardness 3 0.015 M EDTA

Revision Date 25-Oct-2016

**Page** 6 / 17

Aluminum Corrosion Rate No data available

Volatile Organic Compounds (VOC) Content See ingredients information below.

Bulk density Not applicable

Explosive properties Not classified according to GHS criteria.

Explosion data No data available

Upper explosion limit No data available

Lower explosion limit No data available

Flammable properties Not classified as flammable according to GHS criteria.

Flammability Limit in Air

Upper flammability limit: No data available

Lower flammability limit: No data available

Flash point No data available

Method No information available

Oxidizing properties Not classified according to GHS criteria.

Reactivity propeties Not classified as self-reactive, pyrophoric, self-heating or emitting

flammable gases in contact with water according to GHS criteria.

# 10. STABILITY AND REACTIVITY

#### Reactivity propeties

Not classified as self-reactive, pyrophoric, self-heating or emitting flammable gases in contact with water according to GHS criteria

### **Chemical stability**

Stable under recommended storage conditions.

#### Special dangers of the product

None reported

# **Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous polymerization** Hazardous polymerization does not occur.

### **Conditions to avoid**

Poor Ventilation.

#### Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

### **Hazardous Decomposition Products**

None known based on information supplied.

**Product Name** Titrant Solution Hardness 3 0.015 M EDTA **Revision Date** 25-Oct-2016

Page 7 / 17

**Explosive properties** 

Not classified according to GHS criteria.

Upper explosion limit No data available

Lower explosion limit No data available

**Autoignition temperature** 

No data available

Sensitivity to Static Discharge

None reported

**Sensitivity to Mechanical Impact** 

None reported

# 11. TOXICOLOGICAL INFORMATION

NIOSH (RTECS) Number None reported

# Information on Likely Routes of Exposure

Product Information	Product does not present an acute toxicity hazard based on
	known or supplied information.
Inhalation	No known effect based on information supplied.
Eye contact	No known effect based on information supplied.
Skin contact	No known effect based on information supplied.
Ingestion	No known effect based on information supplied.
Aggravated Medical Conditions	None known.
Toxicologically synergistic products	None known.
Toxicokinetics, metabolism and distribution	See ingredients information below.

Chemical Name	Toxicokinetics, metabolism and distribution
1,2-Propanediol	Based on human data (oral child), large doses over prolonged period of time cause behavioral changes.
(20 - 30%)	
CAS#: 57-55-6	
Hydrochloric acid	Low concentrations of hydrochloric acid solution do not seem to cause adverse effects to animals and its
(<0.1%)	corrosivity may be greatly attributed to any acute deaths, therefore it is not classified for acute toxicity.
CAS#: 7647-01-0	

# **Product Acute Toxicity Data**

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

# **Ingredient Acute Toxicity Data**

**Oral Exposure Route** 

Chemical Name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
1,2-Propanediol	Rat	20000 mg/kg	None	None reported	RTECS (Registry of Toxic

Product Name Titrant Solution Hardness 3 0.015 M EDTA

Revision Date 25-Oct-2016

**Page** 8 / 17

(20 - 30%)	LD <sub>50</sub>		reported		Effects of Chemical
CAS#: 57-55-6					Substances)
Chemical Name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time	-	sources for data
Hydrochloric acid	Rat	234 mg/kg	None	None reported	IUCLID (The International
(<0.1%)	LD <sub>50</sub>		reported		Uniform Chemical Information
CAS#: 7647-01-0					Database)
Chemical Name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
	type	uose	time		Sources for data
Hydrochloric acid	Man	2.857 mg/kg	None	Vascular	RTECS (Registry of Toxic
Hydrochloric acid (<0.1%)			None	Vascular BP lowering not characterized in	RTECS (Registry of Toxic
1 -	Man		None		RTECS (Registry of Toxic
(<0.1%)	Man		None	BP lowering not characterized in	RTECS (Registry of Toxic Effects of Chemical Substances)
(<0.1%)	Man		None	BP lowering not characterized in autonomic section	RTECS (Registry of Toxic Effects of Chemical Substances)
(<0.1%)	Man		None	BP lowering not characterized in autonomic section Lungs, Thorax, or Respiration	RTECS (Registry of Toxic Effects of Chemical Substances)

Dermal Exposure Route Toxicological data for ingredients is not indicative of likely harm.

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<b>Chemical Name</b>	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
1,2-Propanediol	Rabbit	20800 mg/kg	None	None reported	IUCLID (The International
(20 - 30%)	LD <sub>50</sub>	' '	reported	·	Uniform Chemical Information
CAS#: 57-55-6			•		Database)
Hydrochloric acid	Rabbit	> 5010 mg/kg	None	None reported	IUCLID (The International
(<0.1%)	LD <sub>50</sub>		reported	·	Uniform Chemical Information
CAS#: 7647-01-0			•		Database)

# Inhalation (Dust/Mist) Exposure Route

No data available

Inhalation (Vapor) Exposure Route

Chemical Name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Hydrochloric acid (<0.1%) CAS#: 7647-01-0	Rat LC₅o	16.8 mg/L	4 hours	None reported	IUCLID (The International Uniform Chemical Information Database)
Chemical Name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Hydrochloric acid (<0.1%) CAS#: 7647-01-0	Human TC∟₀	0.05 mg/L	None reported	Lungs, Thorax, or Respiration Cough	RTECS (Registry of Toxic Effects of Chemical Substances)

# Inhalation (Gas) Exposure Route

No data available

# **Product Skin Corrosion/Irritation Data**

No data available.

# **Ingredient Skin Corrosion/Irritation Data**

Chemical Name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
1,2-Propanediol (20 - 30%) CAS#: 57-55-6	Standard Draize Test	Human	500 mg	7 days	Mild skin irritant	RTECS (Registry of Toxic Effects of Chemical Substances)
Hydrochloric acid (<0.1%) CAS#: 7647-01-0	Existing human experience	Human	None reported	None reported	Corrosive to skin	RTECS (Registry of Toxic Effects of Chemical Substances)
Chemical Name	Test method	Species	Reported	Exposure	Results	Key literature

Product Name Titrant Solution Hardness 3 0.015 M EDTA

Revision Date 25-Oct-2016

**Page** 9/17

				dose	time		references and sources for data
Ī	1,2-Propanediol	Standard Draize	Human	104 mg	72 hours	Skin irritant	RTECS (Registry of
	(20 - 30%)	Test		_			Toxic Effects of
	CAS#: 57-55-6						Chemical Substances)

#### **Product Serious Eye Damage/Eye Irritation Data**

No data available.

# **Ingredient Eye Damage/Eye Irritation Data**

Chemical Name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
1,2-Propanediol (20 - 30%) CAS#: 57-55-6	Standard Draize Test	Rabbit	500 mg	24 hours	Mild eye irritant	RTECS (Registry of Toxic Effects of Chemical Substances)
Hydrochloric acid (<0.1%) CAS#: 7647-01-0	Existing human experience	Human	None reported	None reported	Corrosive to eyes	No information available

### **Sensitization Information**

**Product Sensitization Data** 

Skin Sensitization Exposure Route No data available.

Respiratory Sensitization Exposure Route No data available.

**Ingredient Sensitization Data** 

Skin Sensitization Exposure Route No data available.

Respiratory Sensitization Exposure Route No data available.

**Chronic Toxicity Information** 

**Product Repeat Dose Toxicity Data** 

Oral Exposure Route No data available.

**Dermal Exposure Route**No data available.

Inhalation (Dust/Mist) Exposure Route No data available.

Inhalation (Vapor) Exposure Route No data available.

Inhalation (Gas) Exposure Route No data available.

**Ingredient Repeat Dose Toxicity Data** 

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route

Toxicological data for ingredients is not indicative of likely harm

innalation (Vapor) Ex	posare moun	•		Toxioological data for ingrediente	To flot inaloative of likely flatin.
Chemical Name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
1,2-Propanediol	Rat	2.180 mg/L	90 days	Behavioral	RTECS (Registry of Toxic

Product Name Titrant Solution Hardness 3 0.015 M EDTA

Revision Date 25-Oct-2016

Page 10 / 17

(20 - 30%)	TCLo			Food intake	Effects of Chemical
CAS#: 57-55-6				Biochemical	Substances)
				Enzyme inhibition, induction, or	
				change in blood or tissue levels	
				(dehydrogenases)	
				Endocrine	
				Changes in spleen weight	
Hydrochloric acid	Rat	0.000685	84 days	Behavioral	RTECS (Registry of Toxic
(<0.1%)	TCLo	mg/L		Muscle contraction or spasticity	Effects of Chemical
CAS#: 7647-01-0				Biochemical	Substances)
				Enzyme inhibition, induction, or	
				change in blood or tissue levels	
				(true cholinesterase)	
				Kidney, Ureter, or Bladder	
				Other changes in urine	
				composition	

Inhalation (Gas) Exposure Route

No data available

Chemical Name	CAS No	ACGIH	IARC	NTP	OSHA
1,2-Propanediol	57-55-6	-	=	-	-
Hydrochloric acid	7647-01-0	-	Group 3	-	Χ

### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA (Occupational Safety and Health Administration of the US Department of	Does not apply
Labor)	

<u>Product Carcinogenicity Data</u>

No data available

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

**Ingredient Carcinogenicity Data** 

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

Product Germ Cell Mutagenicity invitro Data

No data available.

Product Name Titrant Solution Hardness 3 0.015 M EDTA Revision Date 25-Oct-2016

Page 11 / 17

Chemical Name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
1,2-Propanediol (20 - 30%) CAS#: 57-55-6	Cytogenetic analysis	Hamster fibroblast	32000 mg/L	None reported	Positive test result for mutagenicity	
Hydrochloric acid (<0.1%) CAS#: 7647-01-0	Cytogenetic analysis	Hamster lung	30 mmol/L	None reported	Positive test result for mutagenicity	RTECS (Registry of Toxic Effects of Chemical Substances)
Chemical Name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Hydrochloric acid (<0.1%) CAS#: 7647-01-0	Cytogenetic analysis	Hamster ovary	8 mmol/L	None reported	Positive test result for mutagenicity	RTECS (Registry of Toxic Effects of Chemical Substances)
Chemical Name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Hydrochloric acid (<0.1%) CAS#: 7647-01-0	DNA repair	Escherichia coli	0.025 mg/well	None reported	Positive test result for mutagenicity	

No data available **Oral Exposure Route** No data available **Dermal Exposure Route** Inhalation (Dust/Mist) Exposure Route No data available Inhalation (Vapor) Exposure Route No data available Inhalation (Gas) Exposure Route No data available

Ingredient Germ Cell Mutagenicity invivo Data

**Oral Exposure Route** No data available **Dermal Exposure Route** No data available No data available Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route No data available Inhalation (Gas) Exposure Route No data available No data available **Oral Exposure Route** No data available **Dermal Exposure Route** No data available Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route No data available Inhalation (Gas) Exposure Route No data available

**Ingredient Reproductive Toxicity Data** 

**Oral Exposure Route** No data available

Product Name Titrant Solution Hardness 3 0.015 M EDTA

Revision Date 25-Oct-2016

Page 12 / 17

**Dermal Exposure Route** 

No data available

Inhalation (Dust/Mist) Exposure Route				No data available	
Chemical Name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Hydrochloric acid (<0.1%) CAS#: 7647-01-0	Rat TC∟₀	0.450 mg/L	1 hours	Effects on Embryo or FetusFetotoxicity (except death e.g. stunted fetus) Specific Developmental AbnormalitiesHomeostasis	RTECS (Registry of Toxic Effects of Chemical Substances)

No data available Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route No data available

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Based on the classification principles, not classified as hazardous

to the environment.

**Product Ecological Data** 

**Aquatic toxicity** 

**Fish** No data available

Crustacea No data available

Algae No data available

**Terrestrial toxicity** 

Soil No data available

No data available **Vertebrates** 

Invertebrates No data available

**Ingredient Ecological Data** 

**Aquatic toxicity** 

Toxicological data for ingredients is not indicative of likely harm. Fish

Chemical Name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
1,2-Propanediol (20 - 30%) CAS#: 57-55-6	96 hours	Pimephales promelas	LC50	51400 mg/L	IUCLID (The International Uniform Chemical Information Database)
Hydrochloric acid (<0.1%) CAS#: 7647-01-0	96 hours	Gambusia affinis	LC50	282 mg/L	IUCLID (The International Uniform Chemical Information Database)

Toxicological data for ingredients is not indicative of likely harm. Crustacea

Chemical Name	Exposure	Species	Endpoint	Reported	Key literature references and
	time		type	dose	sources for data
1,2-Propanediol	48 Hours	Daphnia magna	LC <sub>50</sub>	34400 mg/L	IUCLID (The International
(20 - 30%)					Uniform Chemical Information
CAS#: 57-55-6					Database)
Hydrochloric acid	48 Hours	None reported	LC <sub>50</sub>	240 mg/L	IUCLID (The International
(<0.1%)		•			Uniform Chemical Information

Product Name Titrant Solution Hardness 3 0.015 M EDTA

Revision Date 25-Oct-2016

**Page** 13 / 17

CAS#: 7647-01-0					Database)
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Algae Toxicological data for ingredients is not indicative of likely harm.

Chem	nical Name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
(20	ropanediol ) - 30%) #: 57-55-6	96 hours	Selenastrum capricornutum	EC <sub>50</sub>	19000 mg/L	IUCLID (The International Uniform Chemical Information Database)

# **Terrestrial toxicity**

Soil No data available

Vertebrates No data available

Invertebrates No data available

# **Other Information**

# Persistence and degradability

None known.

### **Product Biodegradability Data**

If available, see ingredient data below.

# **Ingredient Biodegradability Data**

Test data reported below

### **Bioaccumulation**

If available, see ingredient data below.

Product Bioaccumulation Data

Test data reported below.

Ingredient Bioaccumulation Data

No data available

**Additional information** 

**Product Information** 

Partition Coefficient (n-octanol/water)

Not applicable

**Ingredient Information** 

Chemical Name	Partition Coefficient (n-octanol/water)	Method
1,2-Propanediol (20 - 30%) CAS#: 57-55-6	log K <sub>ow</sub> = -0.92	No information available
Hydrochloric acid (<0.1%) CAS#: 7647-01-0	log K <sub>ow</sub> = 0.25	No information available

#### **Mobility**

Mobility in soil: High mobility. If available, see ingredient data below.

# **Product Information**

**Product Name** Titrant Solution Hardness 3 0.015 M EDTA

Revision Date 25-Oct-2016

Page 14 / 17

Soil Organic Carbon-Water Partition Coefficient

Not applicable

# Ingredient Information

Chemical Name	Soil Organic Carbon-Water Partition Coefficient	Method
1,2-Propanediol (20 - 30%) CAS#: 57-55-6	log K <sub>oc</sub> = -0.41	No information available
Hydrochloric acid (<0.1%) CAS#: 7647-01-0	log K <sub>oc</sub> = 0.8	No information available

### **Additional information**

### Water solubility

#### **Product Information**

Water solubility classification	<u>Water solubility</u>	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

### **Ingredient Information**

Chemical Name	Water solubility classification	Water solubility	Water solubility temperature °C	Water solubility temperature °F
·	Completely soluble	100000 mg/L	20 °C	68 °F
CAS#: 57-55-6				
Hydrochloric acid	Soluble	> 1000 mg/L	25 °C	77 °F
CAS#: 7647-01-0				

### Other adverse effects

No information available.

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Contaminated packaging Working in a well-ventilated area. Rinse three times with an appropriate solvent. Collect rinsate and dispose of according to local, state, or federal regulations. Dispose of empty

container as normal trash. In the US, rinsate from empty containers is classified as hazardous waste and should be disposed of at an E.P.A. approved facility. Rinsate from empty containers may contain sufficient product to require disposal as hazardous waste in countries other than the US. Improper disposal or reuse of this container may be dangerous and illegal. Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Special instructions for disposal Open cold water tap completely, slowly pour the material to the drain. Allow cold water to

run for 5 minutes to completely flush the system. Dispose of material in an E.P.A. approved

hazardous waste facility.

# 14. TRANSPORT INFORMATION

Product Name Titrant Solution Hardness 3 0.015 M EDTA

Revision Date 25-Oct-2016

Page 15 / 17

**DOT** Not regulated

TDG Not regulated

IATA Not regulated

IMDG Not regulated

**Note:** No special precautions necessary.

#### **Additional information**

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

### 15. REGULATORY INFORMATION

**National Inventories** 

TSCA Complies DSL/NDSL Complies

**TSCA**- United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL- Canadian Domestic Substances List/Non-Domestic Substances List

#### **International Inventories**

EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
TCSI	Complies
AICS	Complies
NZIoC	Complies

EINECS/ELINCS- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS**- Japan Existing and New Chemical Substances

IECSC- China Inventory of Existing Chemical Substances

**KECL-** Korean Existing and Evaluated Chemical Substances

PICCS- Philippines Inventory of Chemicals and Chemical Substances

TCSI- Taiwan Chemical Substances Inventory

**AICS-** Australian Inventory of Chemical Substances

NZIoC- New Zealand Inventory of Chemicals

# **US Federal Regulations**

#### <u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Hydrochloric acid (CAS #: 7647-01-0)	1.0

### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

Product Name Titrant Solution Hardness 3 0.015 M EDTA

Revision Date 25-Oct-2016

**Page** 16 / 17

# **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrochloric acid 7647-01-0	5000 lb	-	-	Х

# **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hydrochloric acid	5000 lb	5000 lb	RQ 5000 lb final RQ
7647-01-0			RQ 2270 kg final RQ

### U.S. - Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS) - Security Issues

Chemical Name	U.S Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS) - Security Issues
Hydrochloric acid (<0.1%)	Release - Toxic (concentration >=37%); Release - Toxic (anhydrous); Theft - Weapons of Mass Effect (anhydrous)
CAS#: 7647-01-0	

### U.S. - DEA (Drug Enforcement Administration) List I & List II

Chemical Name	U.S DEA (Drug Enforcement Administration) - List I or Precursor	U.S DEA (Drug Enforcement Administration) - List II or Essential
	Chemicals	Chemicals
Hydrochloric acid	Not Listed	0.0 kg Domestic Sales Weight (listed
(<0.1%)		under Anhydrous hydrogen chloride);
CAS#: 7647-01-0		50 gallon Export Volume (exports,
		transshipments and international
		transactions to designated countries);
		27 kg Export Weight (exports,
		transshipments and international
		transactions to designated countries,
		listed under Anhydrous hydrogen
		chloride)

# **US State Regulations**

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals

### **U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
1,2-Propanediol 57-55-6	X	-	X
Hydrochloric acid 7647-01-0	X	X	X

# U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

Product Name Titrant Solution Hardness 3 0.015 M EDTA Revision Date 25-Oct-2016

Page 17 / 17

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

#### **NFPA and HMIS Classifications**

NFPA	Health hazards - 0	Flammability - 0	Instability - 0	Physical and Chemical Properties -
HMIS	Health hazards - 0	Flammability - 0	Physical hazards - 0	Personal protection - X
				- See section 8 for more
				information

### Key or legend to abbreviations and acronyms used in the safety data sheet

NIOSH IDLH Immediately Dangerous to Life or Health

ACGIH ACGIH (American Conference of Governmental Industrial Hygienists)

NDF no data

# Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

MAC Maximum Allowable Concentration Ceiling Ceiling Limit Value

X Listed Vacated These values have no official status. The only

binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state

regulations.

SKN\* Skin designation SKN+ Skin sensitization
RSP+ Respiratory sensitization \*\* Hazard Designation
C Carcinogen R Reproductive toxicant

M mutagen

Prepared By Hach Product Compliance Department

 Issue Date
 25-May-2016

 Revision Date
 25-Oct-2016

Revision Note None

**Disclaimer** 

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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