Identification • Product identifier • Trade name: <u>Titrating Solutions</u> <u>Total Hardness</u> • Article number: 209824 • Details of the supplier of the safety data sheet • Manufacturer/Supplier: Form Instrument Company 14851 Milner Road Housson TX, 7732 800-347-0450 • Information department: Technical Coordinator Sherman Nelson sherman@ aquasolutions.org Technical Coordinator Sherman Nelson sherman@ aquasolutions.org • Encrejency Lephpone number: Chemitre: 800-92-3000 Conduce: 613-996-6666 2 Hazard(s) identification • Classification of the substance or mixture The product is not classified, according to the Globally Harmonized System (GHS). • Label elements • Hazard pictograms Not Applicable • Hazard pictograms Not Applicable • Hazard pictograms Not Applicable • Precutionary statements • Jost with pilenty of scop and water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to a Continue rising. Remove person to fresh air and keep comfortable for breathing. Store in a well-ventilitatel place. Keep container tightly closed. Store own primo static queues. • INFJ ratings (scale 0 - 4) • Mills - 1 Fre = 0 Reactivity = 0 • UMIS-ratings (scale 0 - 4) • Mills of PBT and sPFB assessment • Breich = 1 Fre = 0 Reactivity = 0 • Othe hazards <th>Printing date 01/23/2020</th> <th>Reviewed on 01/23/202</th>	Printing date 01/23/2020	Reviewed on 01/23/202
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Trade name: Titrating Solutions Total Hardness

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· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components: Not Applicable

· Table of Nonhazardous Ingredients

CAS: 6381-92-6 Ethylenedinitrilotetraacetic acid, disodium salt 0.03	72%
CAS: 7732-18-5 Water 99.9	53%

4 First-aid measures

· Description of first aid measures

- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
 Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

· Extinguishing media

- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

 $\cdot \textit{Environmental precautions: Dilute with plenty of water.}$

- \cdot Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

• PAC-1:

CAS: 6381-92-6 Ethylenedinitrilotetraacetic acid, disodium salt

· PAC-2:

CAS: 6381-92-6 Ethylenedinitrilotetraacetic acid, disodium salt

30 mg/m³

330 mg/m³

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Trade name: Titrating Solutions Total Hardness

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 $2,000 \text{ mg/m}^3$

· PAC-3:

CAS: 6381-92-6 Ethylenedinitrilotetraacetic acid, disodium salt

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special measures required.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- · Breathing equipment: Not required.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Goggles recommended during refilling.

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• Other information

Reviewed on 01/23/2020

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Trade name: Titrating Solutions Total Hardness

· Body protection: Protective work clothing

9 Physical and chemical properties			
· Information on basic physical and chemical properties			
· General Information			
· Appearance:			
Form:	Liquid		
Color:	Clear		
· Odor:	Odorless		
· Odor threshold:	Not determined.		
· pH-value:	Not determined.		
· Change in condition			
Melting point/Melting range:	Undetermined.		
Boiling point/Boiling range:	100 °C (212 °F)		
· Flash point:	Not applicable.		
· Flammability (solid, gaseous):	Not applicable.		
· Decomposition temperature:	Not determined.		
· Auto igniting:	Product is not selfigniting.		
Danger of explosion:	Product does not present an explosion hazard.		
· Explosion limits:			
Lower:	Not determined.		
Upper:	Not determined.		
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)		
• Density at 20 °C (68 °F):	0.99982 g/cm³ (8.3435 lbs/gal)		
· Relative density	Not determined.		
· Vapor density	Not determined.		
· Evaporation rate	Not determined.		
· Solubility in / Miscibility with			
Water:	Fully miscible.		
• Partition coefficient (n-octanol/water): Not determined.			
· Viscosity:			
Dynamic:	Not determined.		
Kinematic:	Not determined.		
· Solvent content:			
Water:	100.0 %		
VOC content:	0.00 %		
	0.0 g/l / 0.00 lb/gal		
Solids content:	0.0 %		

No further relevant information available.

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Trade name: Titrating Solutions Total Hardness

(Contd. of page 4)

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Not hazardous for water.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

(Contd. on page 6)

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Trade name: Titrating Solutions Total Hardness

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13 Disposal considerations

- · Waste treatment methods
- *Recommendation:* Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
- *Recommendation: Disposal must be made according to official regulations.*
- Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number DOT, ADN, IMDG, IATA	Not regulated
	Noi regulalea
UN proper shipping name	
DOT, ADN, IATA	Not regulated
IMDG	Not Regulated
	Not regulated
Transport hazard class(es)	
DOT, ADN, IMDG, IATA	
Class	Not regulated
Packing group	
DOT, IMDG, IATA	Not regulated
Environmental hazards:	
Marine pollutant:	No
-	
Special precautions for user	Not applicable.
Transport in bulk according to Annex	II of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Remarks:	Not regulated
	1101 115111111
IMDG	
Remarks:	Not regulated
IATA	
Remarks:	Not regulated
UN "Model Regulation":	Not regulated

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

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US

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Trade name: Titrating Solutions Total Hardness

None of the ingredients is listed. TSCA (Toxic Substances Control Act): Water ACTIV Hazardous Air Pollutants ACTIV None of the ingredients is listed. Froposition 65 Chemicals known to cause cancer: None of the ingredients is listed. None of the ingredients is listed. Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed. NONe of the ingredients is listed. TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed. Generation of the ingredients is listed. TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed. RIDSHCA (Autional Institute for Occupational Safety and Health) None of the ingredients is listed. GIS label elements Not Applicable Hazard statements Not Applicable Hazard statements Not Applicable Hazard statements Not Applicable Precautionary statements If weys: Rinse cautiously with water for severa	Section 212 (Specific tonic chamical listings):	(Contd. of page
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UNERIUM SUIEV USSESSIBEIL. A UNERBIUM SUIEV ASSESSIBEIL DIN DUI DEEL UNITED DIN.	Chemical safety assessment: A Chemical Safety Assessment has not been co	arried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environment protection department.

· Contact:

• Date of preparation / last revision

Revision 0.1, 01-23-2020: Updated Product Description Revision 1.1, 07-17-2019: updated product description. STN

(Contd. on page 8)

Printing date 01/23/2020

Reviewed on 01/23/2020

Trade name: Titrating Solutions Total Hardness

	(Contd. of page 7)
Creation date for SDS 09-05-2019. STN	
01/23/2020 / -	
· Abbreviations and acronyms:	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
ACGIH: American Conference of Governmental Industrial Hygienists	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
VOC: Volatile Organic Compounds (USA, EU)	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
	US