Printing date 05/24/2024 Reviewed on 05/24/2024

1 Identification

· Product identifier

· Trade name: Water Standard

· Article number: WES035

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA

· Information department:

800-256-2586

Technical Coordinator

Sherman Nelson shermann@aquasolutions.org

· Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666



2 Hazard(s) identification

· Classification of the substance or mixture



Skin Irritation 2 H315 Causes skin irritation.

Eye Irritation 2A H319 Causes serious eye irritation.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



· Signal word Warning

· Hazard statements

Causes skin irritation.

Causes serious eye irritation.

· Precautionary statements

Wash thoroughly after handling.

Wear protective gloves / eye protection / face protection.

If on skin: Wash with plenty of water. Specific treatment (see on this label).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

(Contd. on page 2)

(Contd. of page 1)

Safety Data Sheet acc. to OSHA HCS

Reviewed on 05/24/2024 Printing date 05/24/2024

Trade name: Water Standard

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 2Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Fire = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable. · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:			
CAS: 7697-37-2	Nitric Acid	1.65%	
· Table of Nonhaza			
CAS: 7732-18-5	Water	98.335%	
CAS: 13477-34-4	Calcium Nitrate Tetrahydrate	0.009%	
	Potassium Phosphate Monobasic	0.002%	
CAS: 12054-85-2	Ammonium Molybdate Tetrahydrate ACS Grade	0.001%	
CAS: 7439-95-4	Magnesium	0.001%	
CAS: 7789-02-8	Chromium Nitrate Nonahydrate	0.001%	
CAS: 16919-19-0	Ammonium hexafluorosilicate	0.001%	

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, 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.

Printing date 05/24/2024 Reviewed on 05/24/2024

Trade name: Water Standard

(Contd. of page 2)

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.
- Environmental precautions: Dilute with plenty of water.
- · 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

CAS: 7697-37-2	Nitric Acid	0.16 ppm
	Calcium Nitrate Tetrahydrate	12 mg/m ³
	Potassium Phosphate Monobasic	9.6 mg/m ³
	Ammonium Molybdate Tetrahydrate ACS Grade	2.8 mg/m ³
	Magnesium	18 mg/m ³
	Ammonium hexafluorosilicate	10 mg/m ³
	Iron Metal	3.2 mg/m^3
	Cadmium Nitrate	0.27 mg/n
	Ammonium Hydroxide	61 ppm
	Ammonium Hyaroxiae	01 ррт
PAC-2:		
	Nitric Acid	24 ppm
CAS: 13477-34-4	Calcium Nitrate Tetrahydrate	130 mg/n
CAS: 7778-77-0	Potassium Phosphate Monobasic	110 mg/n
CAS: 12054-85-2	Ammonium Molybdate Tetrahydrate ACS Grade	30 mg/m ³
CAS: 7439-95-4	Magnesium	200 mg/n
CAS: 16919-19-0	Ammonium hexafluorosilicate	130 mg/n
CAS: 7439-89-6	Iron Metal	35 mg/m ²
CAS: 10022-68-1	Cadmium Nitrate	2.1 mg/m
CAS: 1336-21-6	Ammonium Hydroxide	330 ррт
PAC-3:		
CAS: 7697-37-2	Nitric Acid	92 ppm
CAS: 13477-34-4	Calcium Nitrate Tetrahydrate	770 mg/m³
CAS: 7778-77-0	Potassium Phosphate Monobasic	630 mg/m³
CAS: 12054-85-2	Ammonium Molybdate Tetrahydrate ACS Grade	180 mg/m³
CAS: 7439-95-4	Magnesium	1,200 mg/n

Printing date 05/24/2024 Reviewed on 05/24/2024

Trade name: Water Standard

		(Contd. of page 3)
CAS: 16919-19-0	Ammonium hexafluorosilicate	780 mg/m³
CAS: 7439-89-6	Iron Metal	150 mg/m³
CAS: 10022-68-1	Cadmium Nitrate	13 mg/m³
CAS: 1336-21-6	Ammonium Hydroxide	2,300 ppm

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- · 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: Keep receptacle tightly sealed.
- \cdot *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 section 7.
- · Control parameters

· Components	with I	imit values	that	require	monitoring	at the	worknlace:
Component	· · · · · · · · · · · · · · · · · · ·	iiiii raiucs	unu	require	mommoning	ui iii	workpluce.

CAS:	7697-37-2	Nitric Acid
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PEL Long-term value: 5 mg/m³, 2 ppm

REL Short-term value: 10 mg/m³, 4 ppm
Long-term value: 5 mg/m³, 2 ppm

TLV Short-term value: (4) NIC-0.025* ppm
Long-term value: (2) ppm
*inh. fraction + vapor, NIC-A4

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- · 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 (Contd. on page 5)

US

Printing date 05/24/2024 Reviewed on 05/24/2024

Trade name: Water Standard

(Contd. of page 4)

· 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:



Tightly sealed goggles

· Body protection: Protective work clothing

Odor threshold: PH-value: Not determined. Change in condition Melting point/Melting range: Boiling point/Boiling range: 100 °C (212 °F) Flash point: Not applicable. Flammability (solid, gaseous): Not applicable. Decomposition temperature: Not determined. Ignition temperature: Product is not selfigniting. Danger of explosion: Product does not present an explosion hazard. Explosion limits: Lower: Upper: Not determined. Vapor pressure at 20 °C (68 °F): 23 hPa (17.3 mm Hg) Density at 20 °C (68 °F): Relative density Not determined. Not determined. Not determined. Not determined. Not determined. Solubility in / Miscibility with Water: Fully miscible.	Information on basic physical and of	chemical properties
Form: Color: Color: Odor: Odor Hreshold: Not determined. Not determined. PH-value: Not determined. Change in condition Melting point/Melting range: Boiling point/Melting range: 100 °C (212 °F) Flash point: Not applicable. Flammability (solid, gaseous): Not applicable. Decomposition temperature: Not determined. Ignition temperature: Product is not selfigniting. Danger of explosion: Product does not present an explosion hazard. Explosion limits: Lower: Upper: Not determined. Vapor pressure at 20 °C (68 °F): 23 hPa (17.3 mm Hg) Density at 20 °C (68 °F): Relative density Not determined. Vapor density Not determined. Vapor density Not determined. Vapor density Not determined. Value:		
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Density at 20 °C (68 °F): Relative density Not determined. Vapor density Not determined. Evaporation rate Not determined. Not determined. Not determined. Fully miscible.	Upper:	Not determined.
Relative density Not determined. Vapor density Not determined. Evaporation rate Not determined. Solubility in / Miscibility with Water: Fully miscible.	Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
Relative density Not determined. Vapor density Not determined. Evaporation rate Not determined. Solubility in / Miscibility with Water: Fully miscible.	Density at 20 °C (68 °F):	1.00658 g/cm³ (8.39991 lbs/gal)
Vapor density Not determined. Evaporation rate Not determined. Solubility in / Miscibility with Water: Fully miscible.		
Solubility in / Miscibility with Water: Fully miscible.		Not determined.
Water: Fully miscible.	Evaporation rate	Not determined.
Water: Fully miscible.	Solubility in / Miscibility with	
Partition coefficient (n-octanol/water): Not determined.	•	Fully miscible.
······································	Partition coefficient (n-octanol/wate	er): Not determined.
	Dynamic:	Not determined.

(Contd. on page 6)

Printing date 05/24/2024 Reviewed on 05/24/2024

Trade name: Water Standard

	(Contd. of p	page 5
Kinematic:	Not determined.	
· Solvent content:		
Water:	98.3 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	0.0 %	
· Other information	No further relevant information available.	

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:
- · LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Inhalative LC50/4h 182 mg/l

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

· IARC (International Agency	for Research on Cancer)	
CAS: 10022-68-1 Cadmium I	Nitrate	1
· NTP (National Toxicology P	-	
CAS: 10022-68-1 Cadmium I	Nitrate	K
	fety & Health Administration)	
CAS: 10022-68-1 Cadmium	Nitrate	

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.

(Contd. on page 7)

Printing date 05/24/2024 Reviewed on 05/24/2024

Trade name: Water Standard

(Contd. of page 6)

- · 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.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

Transport information UN-Number	
DOT, IMDG, IATA	Not regulated
UN proper shipping name DOT, IMDG, IATA	Not regulated
Transport hazard class(es)	
DOT, ADN, IMDG, IATA Class	Not regulated
Packing group DOT, IMDG, IATA	Not regulated
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	II of Not applicable.

15 Regulatory information

· UN "Model Regulation":

· Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

Not regulated

- · Sara
- · Section 355 (extremely hazardous substances):

CAS: 7697-37-2 Nitric Acid

(Contd. on page 8)

Printing date 05/24/2024 Reviewed on 05/24/2024

Trade name: Water Standard

		(Contd. of page 7	
	ific toxic chemical listings):		
	Nitric Acid		
	Calcium Nitrate Tetrahydrate		
	Chromium Nitrate Nonahydrate		
CAS: 10022-68-1			
CAS: 1336-21-6	Ammonium Hydroxide		
TSCA (Toxic Sub	stances Control Act):		
Water		ACTIVE	
Nitric Acid		ACTIVE	
Potassium Phosph	ate Monobasic	ACTIVE	
Magnesium		ACTIVE	
Ammonium hexafluorosilicate ACTIVE			
Iron Metal ACTIVE			
Ammonium Hydro	xide	ACTIVE	
Hazardous Air Po	llutants		
CAS: 10022-68-1	Cadmium Nitrate		
Proposition 65			
Chemicals known	to cause cancer:		
CAS: 10022-68-1	Cadmium Nitrate		
Chemicals known	to cause reproductive toxicity for females:		
None of the ingrea	lients is listed.		
Chemicals known	to cause reproductive toxicity for males:		
None of the ingrea	lients is listed.		
Chemicals known	to cause developmental toxicity:		
None of the ingrea	lients is listed.		

- · Carcinogenic categories
- · EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

CAS: 10022-68-1 | Cadmium Nitrate

- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



- · Signal word Warning
- · Hazard statements

Causes skin irritation.

Causes serious eye irritation.

(Contd. on page 9)

Printing date 05/24/2024 Reviewed on 05/24/2024

Trade name: Water Standard

(Contd. of page 8)

· Precautionary statements

Wash thoroughly after handling.

Wear protective gloves / eye protection / face protection.

If on skin: Wash with plenty of water.

Specific treatment (see on this label).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried 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:

· Date of preparation / last revision

Revision 0.0 05-24-2024: Creation date for SDS. CMC/STN 05/24/2024

· Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

 ${\it IATA: International Air Transport Association}$

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)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

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

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A

US