

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/26/2014 Version: 1.0

1.1 Dreduct identifier	
1.1. Product identifier	· Minture
Product form	: Mixture
Product name	: Water Hardness Buffer
Product code	: LC26840
1.2. Relevant identified uses of the	substance or mixture and uses advised against
Use of the substance/mixture	: For laboratory and manufacturing use only.
1.3. Details of the supplier of the sa	fety data sheet
LabChem Inc Jackson's Pointe Commerce Park Building Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 <u>info@labchem.com</u> - <u>www.labchem.com</u>	1000, 1010 Jackson's Pointe Court
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300 or 011-703-527-3887
SECTION 2: Hazards identification	
2.1. Classification of the substance GHS-US classification	or mixture
Skin Irrit. 2H315Eye Irrit. 2AH319Repr. 1BH360Aquatic Acute 2H401	
2.2. Label elements	
GHS-US labelling	
	GHS07 GHS08
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	 H315 - Causes skin irritation H319 - Causes serious eye irritation H360 - May damage fertility or the unborn child H401 - Toxic to aquatic life
Precautionary statements (GHS-US)	 P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood P264 - Wash exposed skin thoroughly after handling P273 - Avoid release to the environment P280 - Wear protective gloves, eye protection P302+P352 - IF ON SKIN: Wash with plenty of soap and water P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P308+P313 - IF exposed or concerned: Get medical advice/attention P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse P405 - Store locked up P501 - Dispose of contents/container to comply with local, state and federal regulations
2.3. Other hazards	
Other hazards not contributing to the classification	: None under normal conditions.
2.4. Unknown acute toxicity (GHS-U	JS)
No data available	

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

Full text of H-phrases: see section 16

Name	Product identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	93.25	Not classified
Sodium Tetraborate Decahydrate	(CAS No) 1303-96-4	4	Repr. 1B, H360
Sodium Potassium Tartrate, Tetrahydrate	(CAS No) 6381-59-5	1	Not classified
Sodium Sulfide, Nonahydrate	(CAS No) 1313-84-4	1	Met. Corr. 1, H290 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400
Sodium Hydroxide	(CAS No) 1310-73-2	0.65	Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402
EDTA, Magnesium Disodium Salt	(CAS No) 14402-88-1	0.1	Not classified

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact	Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effects	, both acute and delayed
Symptoms/injuries :	May damage fertility or the unborn child.
Symptoms/injuries after skin contact	Causes skin irritation.
Symptoms/injuries after eye contact	Causes serious eye irritation.
4.3. Indication of any immediate medical a	ttention and special treatment needed

Obtain medical assistance.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.	
Unsuitable extinguishing media	: Do not use a heavy water stream.	
5.2. Special hazards arising from the sul	bstance or mixture	
No additional information available		
5.3. Advice for firefighters		
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.	
SECTION 6: Accidental release meas	sures	
SECTION 6: Accidental release meas 6.1. Personal precautions, protective eq	sures uipment and emergency procedures	
6.1. Personal precautions, protective eq		
6.1. Personal precautions, protective eq		
6.1.Personal precautions, protective eq6.1.1.For non-emergency personnel	uipment and emergency procedures	
6.1.Personal precautions, protective equipment6.1.1.For non-emergency personnelProtective equipment	uipment and emergency procedures : Safety glasses. Gloves.	
6.1.Personal precautions, protective equipart6.1.1.For non-emergency personnelProtective equipmentEmergency procedures	uipment and emergency procedures : Safety glasses. Gloves.	
6.1.Personal precautions, protective equipart6.1.1.For non-emergency personnelProtective equipmentEmergency procedures6.1.2.For emergency responders	 uipment and emergency procedures Safety glasses. Gloves. Evacuate unnecessary personnel. 	

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6.2. Environmental pred	autions		
		ties if liquid enters sewers or publ	ic waters. Avoid release to the environment.
6.3. Methods and mater	ial for containment and c	cleaning up	
Methods for cleaning up		k up spills with inert solids, such a age. Store away from other mater	as clay or diatomaceous earth as soon as possible. Collect ials.
6.4. Reference to other	sections		
See Heading 8. Exposure cont	rols and personal protectic	on.	
SECTION 7: Handling a	nd storage		
7.1. Precautions for saf			
Precautions for safe handling	: Was smol vapo	king and when leaving work. Prov	s with mild soap and water before eating, drinking or vide good ventilation in process area to prevent formation of precautions have been read and understood. Obtain
lygiene measures	: Was	h exposed skin thoroughly after h	andling.
7.2. Conditions for safe	storage, including any i	ncompatibilities	
Storage conditions		p only in the original container in a a ainer closed when not in use.	a cool, well ventilated place away from : metals. Keep
ncompatible products	: Stron	ng acids. metals.	
ncompatible materials	: Sour	rces of ignition. Direct sunlight.	
.3. Specific end use(s)			
lo additional information avail	able		
SECTION 8: Exposure 3.1. Control parameters	3	rotection	
Sodium Tetraborate Decah USA ACGIH	ACGIH TWA (mg/m ³)		2 mg/m ³
	, , ,		<u> </u>
USA ACGIH	ACGIH STEL (mg/m ³)		6 mg/m³
Sodium Hydroxide (1310-73	3-2)		
USA ACGIH			
	ACGIH Celling (mg/m [*])		2 mg/m ³
	ACGIH Ceiling (mg/m ³)		2 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/		2 mg/m ³ 2 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/		-
	OSHA PEL (TWA) (mg/		
USA OSHA Sodium Sulfide, Nonahydra USA ACGIH	OSHA PEL (TWA) (mg/ ate (1313-84-4) ACGIH TWA (ppm)		2 mg/m ³
USA OSHA Sodium Sulfide, Nonahydra	OSHA PEL (TWA) (mg/		2 mg/m³
USA OSHA Sodium Sulfide, Nonahydra USA ACGIH USA ACGIH 3.2. Exposure controls	OSHA PEL (TWA) (mg/ ate (1313-84-4) ACGIH TWA (ppm) ACGIH STEL (ppm) ols : Eme	/m³)	2 mg/m ³ 1 ppm 1 ppm afety showers should be available in the immediate vicinity
USA OSHA Sodium Sulfide, Nonahydra USA ACGIH USA ACGIH .2. Exposure controls ppropriate engineering control	OSHA PEL (TWA) (mg/ ate (1313-84-4) ACGIH TWA (ppm) ACGIH STEL (ppm) ols : Eme of ar	/m³) ergency eye wash fountains and s	2 mg/m ³ 1 ppm 1 ppm afety showers should be available in the immediate vicinity
USA OSHA Sodium Sulfide, Nonahydra USA ACGIH USA ACGIH .2. Exposure controls ppropriate engineering control rersonal protective equipment	OSHA PEL (TWA) (mg/ ate (1313-84-4) ACGIH TWA (ppm) ACGIH STEL (ppm) ols : Eme of ar : Avoi	/m³) ergency eye wash fountains and s ny potential exposure. Ensure ade	2 mg/m ³ 1 ppm 1 ppm afety showers should be available in the immediate vicinity
USA OSHA Sodium Sulfide, Nonahydra USA ACGIH USA ACGIH .2. Exposure controls ppropriate engineering control Personal protective equipment land protection	OSHA PEL (TWA) (mg/ ate (1313-84-4) ACGIH TWA (ppm) ACGIH STEL (ppm) ols : Eme of ar : Avoi : Wea : Cher	/m ³) ergency eye wash fountains and s ny potential exposure. Ensure ade d all unnecessary exposure. Ir protective gloves. mical goggles or safety glasses.	2 mg/m ³ 1 ppm 1 ppm afety showers should be available in the immediate vicinity
USA OSHA Sodium Sulfide, Nonahydra USA ACGIH USA ACGIH 3.2. Exposure controls Appropriate engineering control Personal protective equipment Hand protection Eye protection Skin and body protection	OSHA PEL (TWA) (mg/ ate (1313-84-4) ACGIH TWA (ppm) ACGIH STEL (ppm) ols : Eme of ar : Avoi : Wea : Cher : Wea	/m ³) ergency eye wash fountains and s ny potential exposure. Ensure ade d all unnecessary exposure. Ir protective gloves. mical goggles or safety glasses. Ir suitable protective clothing.	2 mg/m ³ 1 ppm 1 ppm afety showers should be available in the immediate vicinity
USA OSHA Sodium Sulfide, Nonahydra USA ACGIH USA ACGIH USA ACGIH A.2. Exposure controls Appropriate engineering control Personal protective equipment fand protection Eye protection Exin and body protection Respiratory protection	OSHA PEL (TWA) (mg/ ate (1313-84-4) ACGIH TWA (ppm) ACGIH STEL (ppm) ols : Eme of ar : Avoi : Wea : Cher : Wea : Wea : Wea	/m ³) ergency eye wash fountains and s ny potential exposure. Ensure ade d all unnecessary exposure. Ir protective gloves. mical goggles or safety glasses. Ir suitable protective clothing. Ir appropriate mask.	2 mg/m ³ 1 ppm 1 ppm afety showers should be available in the immediate vicinity equate ventilation.
USA OSHA Sodium Sulfide, Nonahydra USA ACGIH USA ACGIH USA ACGIH C. Exposure controls sppropriate engineering control Personal protective equipment land protection Eye protection Exin and body protection Respiratory protection	OSHA PEL (TWA) (mg/ ate (1313-84-4) ACGIH TWA (ppm) ACGIH STEL (ppm) ols : Eme of ar : Avoi : Wea : Cher : Wea : Wea : Wea	/m ³) ergency eye wash fountains and s ny potential exposure. Ensure ade d all unnecessary exposure. Ir protective gloves. mical goggles or safety glasses. Ir suitable protective clothing.	2 mg/m ³ 1 ppm 1 ppm afety showers should be available in the immediate vicinity equate ventilation.
USA OSHA Sodium Sulfide, Nonahydra USA ACGIH USA ACGIH USA ACGIH 3.2. Exposure controls Appropriate engineering control Personal protective equipment and protection Eye protection Skin and body protection Respiratory protection Other information	OSHA PEL (TWA) (mg/ ACGIH TWA (ppm) ACGIH STEL (ppm) ACGIH STEL (ppm) Ols : Eme of ar : Avoi : Wea : Cher : Wea : Wea : Do n	/m ³) ergency eye wash fountains and s ny potential exposure. Ensure ade d all unnecessary exposure. Ir protective gloves. mical goggles or safety glasses. Ir suitable protective clothing. Ir appropriate mask. not eat, drink or smoke during use	2 mg/m ³ 1 ppm 1 ppm afety showers should be available in the immediate vicinity equate ventilation.
USA OSHA Sodium Sulfide, Nonahydra USA ACGIH USA ACGIH A.2. Exposure controls Appropriate engineering control Personal protective equipment land protection Eye protection Skin and body protection Respiratory protection Dther information SECTION 9: Physical a	OSHA PEL (TWA) (mg/ ate (1313-84-4) ACGIH TWA (ppm) ACGIH STEL (ppm) ols : Eme of ar : Avoi : Wea : Cher : Wea : Wea : Do n nd chemical propert	/m ³) ergency eye wash fountains and s ny potential exposure. Ensure ade d all unnecessary exposure. In protective gloves. mical goggles or safety glasses. In suitable protective clothing. In appropriate mask. not eat, drink or smoke during use ties	2 mg/m ³ 1 ppm 1 ppm afety showers should be available in the immediate vicinity equate ventilation.
USA OSHA Sodium Sulfide, Nonahydra USA ACGIH USA ACGIH USA ACGIH C. Exposure controls Appropriate engineering control Personal protective equipment Hand protection Eye protection Skin and body protection Skin and body protection Cher information SECTION 9: Physical a 1. Information on bas	OSHA PEL (TWA) (mg/ ate (1313-84-4) ACGIH TWA (ppm) ACGIH STEL (ppm) als : Eme of ar : Avoi : Wea : Cher : Wea : Wea : Do n nd Chemical propertion	/m ³) ergency eye wash fountains and s hy potential exposure. Ensure ade d all unnecessary exposure. In protective gloves. mical goggles or safety glasses. In suitable protective clothing. In appropriate mask. not eat, drink or smoke during use ties	2 mg/m ³ 1 ppm 1 ppm afety showers should be available in the immediate vicinity equate ventilation.
USA OSHA Sodium Sulfide, Nonahydra USA ACGIH USA ACGIH B.2. Exposure controls Appropriate engineering control Personal protective equipment Hand protection Eye protection Skin and body protection Respiratory protection Other information SECTION 9: Physical a	OSHA PEL (TWA) (mg/ ate (1313-84-4) ACGIH TWA (ppm) ACGIH STEL (ppm) ols : Eme of ar : Avoi : Wea : Cher : Wea : Wea : Do n nd chemical propert	/m ³) ergency eye wash fountains and s ny potential exposure. Ensure add d all unnecessary exposure. In protective gloves. mical goggles or safety glasses. In suitable protective clothing. In appropriate mask. not eat, drink or smoke during use ties	2 mg/m ³ 1 ppm 1 ppm afety showers should be available in the immediate vicinity equate ventilation.

- Odour : characteristic. Odour threshold : No data available
- рΗ : No data available Relative evaporation rate (butylacetate=1) : No data available 02/26/2014 EN (English)

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Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Self ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Solubility	:	Soluble in water.
Log Pow	:	No data available
Log Kow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	No data available

9.2. **Other information**

No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
No additional information available
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
Contact with acids liberates toxic gas.
10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures.
10.5. Incompatible materials
Strong acids. metals.
10.6. Hazardous decomposition products
Carbon monoxide. Carbon dioxide. Sulfur compounds.
SECTION 11: Toxicological information
11.1. Information on toxicological effects
Acute toxicity : Not classified

Sodium Tetraborate Decahydrate (1303-96-4)	
LD50 oral rat	2660 mg/kg
LD50 dermal rabbit	10000 mg/kg
Water (7732-18-5)	
LD50 oral rat	≥ 90000 mg/kg
Sodium Hydroxide (1310-73-2)	
LD50 dermal rabbit	1350 mg/kg (Rabbit; Literature,Rabbit; Literature)
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified

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Reproductive toxicity	: May damage fertility or the unborn child.
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated	: Not classified
exposure)	
Aspiration hazard	: Not classified
Potential Adverse human health effects and	: Based on available data, the classification criteria are not met.
symptoms	
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Likely routes of exposure	: Skin and eye contact;Inhalation

SECTION 12: Ecological information

12.1. Toxicity Ecology - water

: Toxic to aquatic life.

Sodium Tetraborate Decahydrate (1303-96-4	
EC50 Daphnia 1	1085 mg/l
Sodium Hydroxide (1310-73-2)	
LC50 fishes 1	45.4 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Solution >=50%)
EC50 Daphnia 1	40.4 mg/l (48 h; Ceriodaphnia sp.; Nominal concentration)
LC50 fish 2	189 mg/l (48 h; Leuciscus idus)
TLM fish 1	99 mg/l (48 h; Lepomis macrochirus)
TLM fish 2	125 ppm (96 h; Gambusia affinis)
Sodium Sulfide, Nonahydrate (1313-84-4)	
LC50 fishes 1	15 mg/l (96 h; Poecilia reticulata; Anhydrous form)
EC50 Daphnia 1	2.1 mg/l (48 h; Daphnia magna; Anhydrous form)
EC50 other aquatic organisms 1	0.86 mg/l (Algae; Anhydrous form)
LC50 fish 2	0.0243 mg/l (96 h; Pimephales promelas; Hydrogen sulfide)
EC50 Daphnia 2	7.1 - 12 mg/l (24 h; Daphnia magna; Anhydrous form)
TLM fish 1	61 ppm (48 h; Lepomis macrochirus; Anhydrous form)
Threshold limit other aquatic organisms 1	14 mg/l (Protozoa; Anhydrous form)
Threshold limit algae 1	8 mg/l (192 h; Microcystis aeruginosa; Anhydrous form)
Threshold limit algae 2	44 mg/l (Scenedesmus quadricauda; Anhydrous form)

Persistence and degradability 12.2.

Water Hardness Buffer	
Persistence and degradability	Not established.
Sodium Potassium Tartrate, Tetrahydrate (63	81-59-5)
Persistence and degradability	Not established.
Sodium Tetraborate Decahydrate (1303-96-4)	
Persistence and degradability	Not established.
Water (7732-18-5)	
Persistence and degradability	Not established.
Sodium Hydroxide (1310-73-2)	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
Sodium Sulfide, Nonahydrate (1313-84-4)	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	Not applicable

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Sodium Sulfide, Nonahydrate (1313-84-4)	
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
-	
BOD (% of ThOD)	Not applicable
12.3. Bioaccumulative potential	
Water Hardness Buffer	
Bioaccumulative potential	Not established.
Sodium Potassium Tartrate, Tetrahydrate	e (6381-59-5)
Bioaccumulative potential	Not established.
Sodium Tetraborate Decahydrate (1303-9)6-4)
Bioaccumulative potential	Not established.
Water (7732-18-5)	
Bioaccumulative potential	Not established.
•	
Sodium Hydroxide (1310-73-2)	Piezcoumulation: not applicable
Bioaccumulative potential	Bioaccumulation: not applicable.
Sodium Sulfide, Nonahydrate (1313-84-4)	
BCF fish 1	1.6
BCF other aquatic organisms 1	4.3 - 10.9 (2 h; Anhydrous form)
Bioaccumulative potential	Low potential for bioaccumulation (molecular mass >=700 g/mol).
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Other information	: Avoid release to the environment.
SECTION 13: Disposal considerat	ione
SECTION 13. DISOOSAL CONSIDELAL	
13.1. Waste treatment methods	
13.1. Waste treatment methods	: Dispose in a safe manner in accordance with local/national regulations. Dispose of
13.1. Waste treatment methods Waste disposal recommendations	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations.
13.1. Waste treatment methods Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of
13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with DOT	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport region	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport reg Additional information	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport reg Additional information	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport reg Additional information Other information	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport regi Additional information Other information ADR	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport regi Additional information Other information ADR	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport reg Additional information Other information ADR Transport document description	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport regi Additional information Other information ADR Transport document description Transport by sea	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
 13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport reg Additional information Other information ADR Transport document description Transport by sea No additional information available 	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
 13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport reg Additional information Other information ADR Transport document description Transport by sea No additional information available Air transport 	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
 13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport reg Additional information Other information ADR Transport document description Transport by sea No additional information available Air transport No additional information available 	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
 13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport reg Additional information Other information ADR Transport document description Transport by sea No additional information available Air transport No additional information available 	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
 13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport reg Additional information Other information ADR Transport document description Transport by sea No additional information available Air transport No additional information available SECTION 15: Regulatory information 	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
 13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport reg Additional information Other information ADR Transport document description Transport by sea No additional information available Air transport No additional information available SECTION 15: Regulatory information 	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment. ulations I No supplementary information available. I No supplementary information available.
 13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport regination Additional information Other information ADR Transport document description Transport by sea No additional information available Air transport No additional information available SECTION 15: Regulatory information 15.1. US Federal regulations 	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. : Avoid release to the environment. ulations : No supplementary information available. : ion ion ion ion ion
 13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport reg Additional information Other information Other information ADR Transport document description Transport by sea No additional information available Air transport No additional information available SECTION 15: Regulatory information 15.1. US Federal regulations Sodium Potassium Tartrate, Tetrahydrate Listed on the United States TSCA (Toxic Suman Science) 	E Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment. Ulations I No supplementary information available. I No supplementary information available. I Home Set 100 (100 (100 (100 (100 (100 (100 (100
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Water (7732-18-5)	
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory
Sodium Hydroxide (1310-73-2)	
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	1000 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
EDTA, Magnesium Disodium Salt (14402-88-1)	
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory
Sodium Sulfide, Nonahydrate (1313-84-4)	
Not listed on the United States TSCA (Toxic Sub	stances Control Act) inventory
5.2. International regulations	
ANADA	
Water Hardness Buffer	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
Sodium Potassium Tartrate, Tetrahydrate (638	81-59-5)
Listed on the Canadian DSL (Domestic Sustance	es List) inventory.
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
Sodium Tetraborate Decahydrate (1303-96-4)	
Listed on the Canadian DSL (Domestic Sustance	es List) inventory.
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
Water (7732-18-5)	
Water (1152-10-5)	
Listed on the Canadian DSL (Domestic Sustance	es List) inventory.

 Sodium Hydroxide (1310-73-2)

 Listed on the Canadian DSL (Domestic Sustances List) inventory.

 WHMIS Classification
 Class E - Corrosive Material

Sodium Sulfide, Nonahydrate (1313-84-4)	
Not listed on the Canadian DSL (Domestic Susta	nces List) inventory.
WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class E - Corrosive Material

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC Not classified

15.2.2. National regulations

Sodium Potassium Tartrate, Tetrahydrate (6381-59-5)
Not listed on the Canadian Ingredient Disclosure List
Sodium Tetraborate Decahydrate (1303-96-4)
Listed on the Canadian Ingredient Disclosure List

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Water (7732-18-5)
Not listed on the Canadian Ingredient Disclosure List
Sodium Hydroxide (1310-73-2)
Listed on the Canadian Ingredient Disclosure List
Sodium Sulfide, Nonahydrate (1313-84-4)
Not listed on the Canadian Ingredient Disclosure List

15.3. US State regulations

No additional information available

SECTION 16: Other information

Other information

: None.

Full text of H-phrases: see section 16:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1	
Aquatic Acute 2	Hazardous to the aquatic environment — AcuteHazard, Category 2	
Aquatic Acute 3	Hazardous to the aquatic environment — AcuteHazard, Category 3	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A	
let. Corr. 1 Corrosive to metals, Category 1		
Repr. 1B	Reproductive toxicity, Category 1B	
Skin Corr. 1A	Skin corrosion/irritation, Category 1A	
Skin Corr. 1B	Skin corrosion/irritation, Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
H290	May be corrosive to metals	
H301	Toxic if swallowed	
H311	Toxic in contact with skin	
H312	Harmful in contact with skin	
H314	Causes severe skin burns and eye damage	
H315	Causes skin irritation	
H318	Causes serious eye damage	
H319	Causes serious eye irritation	
H360	May damage fertility or the unborn child	
H400	Very toxic to aquatic life	
H401	Toxic to aquatic life	
H402	Harmful to aquatic life	

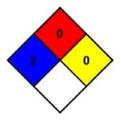
NFPA health hazard

NFPA fire hazard

NFPA reactivity

: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

: 0 - Materials that will not burn.
 : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard
Personal Protection	: G
SDS US (GHS HazCom 2012)	

SDS US (GHS HazCom 2012) 02/26/2014

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