

Safety Data Sheet AEC81XX according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/15/2015 Version: 1.0

SECTION 1: Identification of the subs	tance/mixture and of the company/undertaking
1.1. Product identifier	
	: Mixture
	: EC-81
Product code	: AEC81XX-025-002
	ance or mixture and uses advised against
	-
1.3. Details of the supplier of the safety de Seacole-CRC, LLC	ata sheet
13505 Industrial Park Blvd Plymouth, MN 55441 - USA T 763-582-1140 www.Seacole.com	
1.4. Emergency telephone number	
Emergency number	: Infotrac - 800-535-5053
SECTION 2: Hazards identification	
2.1. Classification of the substance or mix	xture
Classification (GHS-US)	
Skin Corr. 1A	H314
Eye Dam. 1	H318
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	CHS05
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H314 - Causes severe skin burns and eye damage H318 - Causes serious eve damage
Precautionary statements (GHS-US)	 P260 - Do not breathe dust P264 - Wash clothing, hands, forearms and face thoroughly after handling P280 - Wear eye protection, face protection, protective clothing, protective gloves P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a doctor, a POISON CENTER P363 - Wash contaminated clothing before reuse P405 - Store locked up P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
Not applicable	

Not applicable

SECTION 3: Composition/information on ingredients

Substance 3.1.

Not applicable

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Name	Product identifier	%	Classification (GHS-US)
Sodium Tripolyphosphate	(CAS No) 7758-29-4	20 - 50	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Sodium Carbonate	(CAS No) 497-19-8	5 - 10	Skin Corr. 1A, H314 Eye Dam. 1, H318
Tetrasodium Ethylenediaminetetraacetate	(CAS No) 64-02-8	5 - 10	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Citric Acid	(CAS No) 77-92-9	3 - 5	Eye Irrit. 2A, H319

Full text of H-phrases: see section 16

Full lext of m-philases. see section to	
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 you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. Indication of any immediate medical	attention and special treatment needed
No additional information available	
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
6.1. Personal precautions, protective equ	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notify	authorities if liquid enters sewers or public waters.
6.3. Methods and material for containme	ent and cleaning up
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.
D. f. D. fammer for affective stations	

6.4. **Reference to other sections**

See Heading 8. Exposure controls and personal protection.

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
7.2. Conditions for safe storage, includi	ng any incompatibilities
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.
7.3. Specific end use(s)	

No additional information available

.1. Control pa	rameters	
EC-81		
ACGIH	Not applicable	
OSHA	Not applicable	
Tetrasodium Ethy	enediaminetetraacetate (64-02-8)	
ACGIH	Not applicable	
OSHA	Not applicable	
Sodium Carbonate	(497-19-8)	
ACGIH	Not applicable	
OSHA	Not applicable	
Sodium Tripolyph	osphate (7758-29-4)	
ACGIH	Not applicable	
OSHA	Not applicable	
Citric Acid (77-92-	3)	
ACGIH	Not applicable	
OSHA	Not applicable	

8.2. Exposure controls	
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties			
9.1. Information on basic ph	9.1. Information on basic physical and chemical properties		
Physical state	: Solid		
Color	: Colorless		
Odor	: characteristic		
Odor threshold	: No data available		
рН	: No data available		
pH solution	: 9.2 (2%)		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: No data available		

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Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Solubility	 Water: Solubility in water of component(s) of the mixture : 103 g/100ml 22 g/100ml 15 g/100ml 6 g/100ml +: 59 g/100ml 10 g/100ml
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available

SECTION	10: Stability and reactivity	
10.1. Rea	activity	
No additional	information available	
10.2. Ch	emical stability	
Not establishe	ed.	
10.3. Pos	ssibility of hazardous reactions	
Not establishe	ed.	
10.4. Co	nditions to avoid	
Direct sunlight. Extremely high or low temperatures.		
10.5. Inc	ompatible materials	
Strong acids.	Strong bases.	
10.6. Haz	zardous decomposition products	
fume. Carbon	n monoxide. Carbon dioxide.	
SECTION	11: Toxicological information	
11.1. Info	ormation on toxicological effects	
Acute toxicity	: Not classified	

Tetrasodium Ethylenediaminetetraacetate (64-02-8)		
LD50 oral rat	> 2000 mg/kg (Rat)	
ATE US (oral)	500.000 mg/kg body weight	
Sodium Carbonate (497-19-8)		
LD50 oral rat	2800 mg/kg (Rat; Experimental value)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Experimental value)	
ATE US (oral)	2800.000 mg/kg body weight	
Sodium Tripolyphosphate (7758-29-4)		
LD50 oral rat	> 2000 mg/kg (Rat)	
LD50 dermal rabbit	> 4640 mg/kg (Rabbit)	
Citric Acid (77-92-9)		
LD50 oral rat	3000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; 11700 mg/kg bodyweight; Rat; Experimental value)	
LD50 dermal rat	> 2000 mg/kg body weight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)	
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Citric Acid (77-92-9)	
ATE US (oral)	3000.000 mg/kg body weight
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated	: Not classified
exposure)	
	Net des stat
Aspiration hazard	: Not classified
Potential Adverse human health effects and	: Based on available data, the classification criteria are not met.
symptoms	

Toxicity 12.1.

Tetrasodium Ethylenediaminetetraacetate (64-02-8)		
LC50 fish 1	121 mg/l (96 h; Lepomis macrochirus; Soft water)	
EC50 Daphnia 1	625 mg/l (24 h; Daphnia magna)	
LC50 fish 2	374 - 792 mg/l (96 h; Lepomis macrochirus; pH > 7)	
Threshold limit algae 1	> 100 mg/l (72 h; Scenedesmus subspicatus; Growth)	
Sodium Carbonate (497-19-8)		
LC50 fish 1	300 mg/l (96 h; Lepomis macrochirus)	
EC50 Daphnia 1	< 424 mg/l (48 h; Daphnia magna)	
EC50 other aquatic organisms 1	14 mg/l (168 h; Plankton)	
LC50 fish 2	740 mg/l (96 h; Gambusia affinis)	
EC50 Daphnia 2	265 mg/l (48 h; Daphnia magna)	
TLM fish 1	300 ppm (96 h; Lepomis macrochirus)	
TLM other aquatic organisms 1	500 ppm (96 h; Daphnia magna)	
Threshold limit algae 1	242 mg/l (5 days; Algae)	
Sodium Tripolyphosphate (7758-29-4)		
LC50 fish 1	1650 mg/l (48 h; Leuciscus idus)	
EC50 Daphnia 1	1089 mg/l (505 h; Daphnia magna)	
EC50 other aquatic organisms 1	> 1000 mg/l (3 h; Activated sludge)	
EC50 Daphnia 2	1154 mg/l (25 h; Daphnia magna)	
Citric Acid (77-92-9)		
LC50 fish 1	2600 mg/l (48 h; Leuciscus idus; pH = 7)	
EC50 Daphnia 1	120 mg/l (72 h; Daphnia magna; pH < 7)	
LC50 fish 2	1516 mg/l (96 h; Lepomis macrochirus)	
EC50 Daphnia 2	85 mg/l (Daphnia magna)	
Threshold limit algae 1	80 mg/l (192 h; Microcystis aeruginosa; Reproduction)	
Threshold limit algae 2	640 mg/l (168 h; Scenedesmus quadricauda)	

12.2. Persistence and degradability

EC-81			
Persistence and degradability	Not established.		
Tetrasodium Ethylenediaminetetraacetate (64-02-8)			
Persistence and degradability	Not readily biodegradable in water		
Biochemical oxygen demand (BOD)	< 0.002 g O₂/g substance		
Chemical oxygen demand (COD)	0.54 - 0.58 g O ₂ /g substance		
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Sodium Carbonate (497-19-8)	
Persistence and degradability	Biodegradability: not applicable. Low potential for adsorption in soil.
ThOD	Not applicable (inorganic)
Sodium Tripolyphosphate (7758-29-4)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
Citric Acid (77-92-9)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.
Biochemical oxygen demand (BOD)	0.420 g O₂/g substance
Chemical oxygen demand (COD)	0.728 g O₂/g substance
ThOD	0.686 g O₂/g substance
BOD (% of ThOD)	(20 day(s)) 0.89

EC-81		
Bioaccumulative potential	Not established.	
Tetrasodium Ethylenediaminetetraacetate (64-02-8)		
Log Pow	-2.6	
Bioaccumulative potential	Bioaccumulation: not applicable.	
Sodium Carbonate (497-19-8)		
Log Pow	-6.19 (Estimated value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Sodium Tripolyphosphate (7758-29-4)		
Bioaccumulative potential	Not bioaccumulative.	
Citric Acid (77-92-9)		
Log Pow	-1.72 (Experimental value)	
Bioaccumulative potential	Bioaccumulation: not applicable.	
12.4 Mobility in soil		

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects	
Effect on the global warming :	No known ecological damage caused by this product.
Other information :	Avoid release to the environment.
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste disposal recommendations :	Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials :	Avoid release to the environment.
SECTION 14: Transport information	

Department of Transportation (DOT) In accordance with DOT Not regulated for transport Additional information Other information : No supplementary information available.

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ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information		
15.1. US Federal regulations		
Tetrasodium Ethylenediaminetetraacetate (64-02-8)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Sodium Carbonate (497-19-8)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Sodium Tripolyphosphate (7758-29-4)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not listed on the United States SARA Section 313		
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb	
Citric Acid (77-92-9)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

15.2. International regulations CANADA

No additional information available

EU-Regulations

No additional information available

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

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Not classified

National regulations No additional information available

15.3. US State regulations

Sodium Tripolyphosphate (7758-29-4)

U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Other information

: None.

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Full text of H-phrases:

Acute toxicity (oral) Category 4
Serious eye damage/eye irritation Category 1
Serious eye damage/eye irritation Category 2A
Skin corrosion/irritation Category 1A
Skin corrosion/irritation Category 2
Harmful if swallowed
Causes severe skin burns and eye damage
Causes skin irritation
Causes serious eye damage
Causes serious eye irritation

SDS US (GHS HazCom 2012)

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