

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	APEX SOLID QUAT BROAD RANGE SANITIZER
Other means of identification	:	Not applicable
Recommended use	:	Sanitizer - Food contact surface
Restrictions on use	:	Reserved for industrial and professional use.
Product dilution information	•	0.041 % - 0.109 %
Company	:	Ecolab Inc. 1 Ecolab Place St. Paul, Minnesota USA 55102 1-800-352-5326
Emergency health information	:	1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)
Issuing date	:	04/02/2019
SECTION 2. HAZARDS IDENTIFICATION		

GHS Classification

Product AS SOLD Acute toxicity (Oral) Acute toxicity (Dermal) Skin corrosion Serious eye damage	 Category 3 Category 3 Category 1A Category 1
Product AT USE DILUTION Acute toxicity (Oral)	: Category 4
GHS label elements	
Product AS SOLD Hazard pictograms	
Signal Word	: Danger
Hazard Statements	: Toxic if swallowed or in contact with skin. Causes severe skin burns and eye damage.
Precautionary Statements	 Prevention: Do not breathe dusts or mists. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/ protective clothing/ eye protection/ face protection. Response: IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON

CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Take off contaminated clothing and wash before reuse.

Storage:

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Product AT USE DILUTION Hazard pictograms	
Signal Word	: Warning
Hazard Statements	: Harmful if swallowed.
Precautionary Statements	 Prevention: Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Response: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Disposal: Dispose of contents/ container to an approved waste disposal plant.
Product AS SOLD	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

: None known.

Pure substance/mixture : Mixture		
Chemical name	CAS-No.	Concentration (%)
Urea	57-13-6	30 - 60
n-Alkyl(68% C12, 32% C14) dimethylethylbenzyl ammonium chlorides	85409-23-0	18.93
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chlorides	68391-01-5	18.93
Amines (incl. ethanolamines)	68391-04-8	1 - 5
Product AT USE DILUTION Chemical name	CAS-No.	Concentration (%)

SECTION 4. FIRST AID MEASURES

Product AS SOLD

Other hazards

In case of eye contact

: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact	:	Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
If swallowed	:	Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
If inhaled	:	Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
Protection of first-aiders	:	If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Notes to physician	:	Treat symptomatically.
Most important symptoms and effects, both acute and delayed	:	See Section 11 for more detailed information on health effects and symptoms.
Product AT USE DILUTION In case of eye contact	:	Rinse with plenty of water.
In case of skin contact	:	Rinse with plenty of water.
If swallowed	:	Rinse mouth. Get medical attention if symptoms occur.
If inhaled	:	Get medical attention if symptoms occur.

SECTION 5. FIRE-FIGHTING MEASURES

Product AS SOLD Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Not flammable or combustible.
Hazardous combustion products	:	Decomposition products may include the following materials: Carbon oxides Nitrogen oxides (NOx)
Special protective equipment for fire-fighters	:	Use personal protective equipment.
Specific extinguishing methods	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Product AS SOLD

Personal precautions,	:	Ensure adequate ventilation. Keep people away from and upwind of
protective equipment and		spill/leak. Avoid inhalation, ingestion and contact with skin and eyes.

emergency procedures		When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Do not allow contact with soil, surface or ground water.
Methods and materials for containment and cleaning up	:	Sweep up and shovel into suitable containers for disposal.
Product AT USE DILUTION Personal precautions, protective equipment and emergency procedures	:	Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Do not allow contact with soil, surface or ground water.
Methods and materials for containment and cleaning up	:	Stop leak if safe to do so. Contain spillage, and then collect with non- combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.
SECTION 7. HANDLING AND	S	ORAGE
Product AS SOLD Advice on safe handling	:	Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage	:	Keep out of reach of children. Store in suitable labeled containers.
Storage temperature	:	0 °C to 50 °C
Product AT USE DILUTION Advice on safe handling	:	Do not ingest. Wash hands thoroughly after handling.
Conditions for safe storage	:	Keep out of reach of children. Store in suitable labeled containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product AS SOLD

Ingredients with workplace control parameters

Components	CAS	S-No.	Form of exposure	Permissible concentration	Basis
Urea	57-1	13-6	TWA	10 mg/m3	AIHA WEEL
Engineering measures Personal protective equip	belo		ust ventilation s tional exposure	ystem. Maintain air co standards.	oncentrations
Eye protection				g of the product, no p ormal use conditions.	rotective
Hand protection	: Due	to the for	m and packagin	g of the product, no p	rotective
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	equipment is needed under normal use conditions.
Skin protection	: Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
Respiratory protection	: Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.
Product AT USE DILUTION	
Engineering measures	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Personal protective equipme	nt

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Eye protection	:	No special protective equipment required.
Hand protection	:	No special protective equipment required.
Skin protection	:	No special protective equipment required.
Respiratory protection	:	No personal respiratory protective equipment normally required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD Product AT USE DILUTIO	N		
Appearance	Extruded solid. liquid			
Color	dark red light red			
Odor	slight slight			
рН	6.0 - 9.0, (1 %) 7.2 - 7.78			
Flash point	Not applicable, Does not sustain combustion.			
Odor Threshold	No data available	No data available		
Melting point/freezing point	No data available			
Initial boiling point and boiling range	No data available			
Evaporation rate	No data available			
Flammability (solid, gas)	No data available			
Upper explosion limit	No data available			
Lower explosion limit	No data available			
Vapor pressure	No data available			
Relative vapor density	No data available			
Relative density	0.9 - 1.1			
Water solubility	soluble			
Solubility in other solvents	No data available			
Partition coefficient: n-	No data available			

octanol	/water
UCLAHUI	/water

Autoignition temperature	: No data available	
Thermal decomposition	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: The substance or mixture is not classified as oxidizing.	
Molecular weight	: No data available	
VOC	: No data available	

SECTION 10. STABILITY AND REACTIVITY

Product AS SOLD Chemical stability	: Stable under normal conditions.	
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.	
Conditions to avoid	: None known.	
Incompatible materials	: None known.	
Hazardous decomposition products	: Decomposition products may include the following materials: Carbon oxides Nitrogen oxides (NOx)	

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Product AS SOLD Eyes	: Causes serious eye damage.
Skin	: Causes severe skin burns.
Ingestion	: Toxic if swallowed. Causes digestive tract burns.
Inhalation	: May cause nose, throat, and lung irritation.
Chronic Exposure	: Health injuries are not known or expected under normal use.
Product AT USE DILUTION Eyes	: Health injuries are not known or expected under normal use.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Harmful if swallowed.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.

Experience with human exposure

Product AS SOLD

Eye contact	Redness, Pain, Corrosion	
Skin contact	Redness, Pain, Corrosion	
Ingestion	Corrosion, Abdominal pain	
Inhalation	Respiratory irritation, Cough	
Product AT USE DILUTION		
Eye contact	No symptoms known or expected.	
Skin contact	No symptoms known or expected.	
Ingestion	No information available.	
Inhalation	No symptoms known or expected.	
Toxicity		
Product AS SOLD		
Product		
Acute oral toxicity	LD50 Rat: > 50 - 500 mg/kg Test substance: Product	
Acute inhalation toxicity	No data available	
Acute dermal toxicity	LD50 Rabbit: > 200 mg/kg Test substance: Product	
Skin corrosion/irritation	Causes severe skin burns and eye damage. Test substance:Product	
Serious eye damage/eye irritation	Irreversible effects on the eye Test substance: Product	
Respiratory or skin	Not a skin sensitizer.	
sensitization	Test substance: Product	
Carcinogenicity	No data available	
Reproductive effects	No data available	
Germ cell mutagenicity	No data available	
Teratogenicity	No data available	
STOT-single exposure	No data available	
STOT-repeated exposure	No data available	
Aspiration toxicity	No data available	
Components		
Acute inhalation toxicity	Urea 4 h LC50 Rat: > 2.71 mg/l Test atmosphere: dust/mist	
	n-Alkyl(68% C12, 32% C14) dimethylethylbenzyl ammonium chlori 4 h LC50 Rat: > 0.054 mg/l Test atmosphere: dust/mist	des

Test atmosphere: dust/mist

n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chlorides LC50 Rat: > 0.054 mg/l Test atmosphere: dust/mist

SECTION 12. ECOLOGICAL INFORMATION

Product AS SOLD Ecotoxicity	
Environmental Effects	: Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Product	
Toxicity to fish	: No data available
Toxicity to daphnia and other aquatic invertebrates	: No data available
Toxicity to algae	: No data available
Components	
Toxicity to fish	: Urea 96 h LC50 Fish: 127.9 mg/l
Components	
Toxicity to daphnia and other aquatic invertebrates	 n-Alkyl(68% C12, 32% C14) dimethylethylbenzyl ammonium chlorides 48 h EC50 Daphnia: 0.0058 mg/l
	n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chlorides 48 h EC50: 0.47 mg/l
	Amines (incl. ethanolamines) 48 h EC50 Daphnia: 0.042 mg/l
Components	
Toxicity to algae	 n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chlorides NOEC: 0.009 mg/l
Persistence and degradability	
Product AS SOLD Not applicable - Biocide	
Product AT USE DILUTION Not applicable - Biocide	

Not applicable - Biocide

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Product AS SOLD Disposal methods	:	Do not contaminate ponds, waterways or ditches with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.
Disposal considerations	:	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re- use empty containers. Dispose of in accordance with local, state, and federal regulations.
Product AT USE DILUTION Disposal methods	:	Do not contaminate ponds, waterways or ditches with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.
Disposal considerations	:	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re- use empty containers. Dispose of in accordance with local, state, and federal regulations.

SECTION 14. TRANSPORT INFORMATION

Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Not dangerous goods

Sea transport (IMDG/IMO)

UN number	:	3077
Description of the goods	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Class	:	9
Packing group	:	
Marine pollutant	:	yes

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

EPA Registration number : 5389-20

5389-20-ZA

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards	Acute toxicity (any route of exposure) Skin corrosion or irritation Serious eye damage or eye irritation
SARA 302 :	This material does not contain any components with a section 302 EHS TPQ.
SARA 313 :	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

California Cleaning Product Right to Know Act of 2017 (SB 258)

This regulation applies to this product.

CAS-No.	Function	List(s)
85409-23-0	Biocide	Not Applicable
68391-01-5	Biocide	Not Applicable
7732-18-5	Processing Aid	Not Applicable
Withheld	Dye	Not Applicable
	85409-23-0 68391-01-5 7732-18-5	85409-23-0 Biocide 68391-01-5 Biocide 7732-18-5 Processing Aid

*refer to ecolab.com/sds for electronic links to designated lists

The ingredients of this product are reported in the following inventories:

United States TSCA Inventory :

On the inventory, or in compliance with the inventory

Canadian Domestic Substances List (DSL) :

All components of this product are on the Canadian DSL

Australia Inventory of Chemical Substances (AICS) :

On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemical Substances :

On the inventory, or in compliance with the inventory

Japan. ENCS - Existing and New Chemical Substances Inventory :

On the inventory, or in compliance with the inventory

Korea. Korean Existing Chemicals Inventory (KECI) :

On the inventory, or in compliance with the inventory

Philippines Inventory of Chemicals and Chemical Substances (PICCS) : On the inventory, or in compliance with the inventory

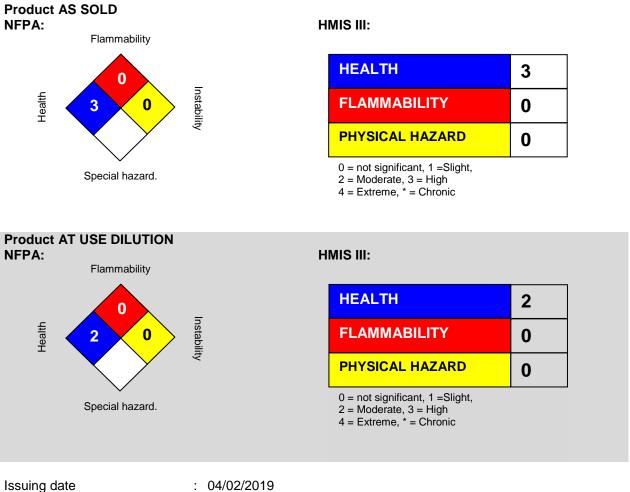
China. Inventory of Existing Chemical Substances in China (IECSC) :

On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI) :

On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION



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Version Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge. information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.