

SAFETY DATA SHEET



APEX SOLID QUAT BROAD RANGE SANITIZER

Section 1. Chemical product and company identification

Product name : APEX SOLID QUAT BROAD RANGE SANITIZER
Recommended use and restrictions : Sanitizer - Food contact surface

Use only for the purpose on the product label.

Product dilution information : Up to 0.14oz/gal

Supplier's information : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326

Code : 904107-04

Date of issue : **21 Aug 2013**

EPA Registration No. : 5389-20

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Hazards identification

Product AS SOLD

GHS Classification : ACUTE TOXICITY: ORAL - Category 3
ACUTE TOXICITY: SKIN - Category 3
SKIN CORROSION/IRRITATION - Category 1B
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

GHS label elements

Signal word : Danger

Symbol : 

Hazard statements : Toxic if swallowed or in contact with skin.
Causes severe skin burns and eye damage.

Precautionary statements

Prevention : Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wash hands thoroughly after handling.

Response : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF ON SKIN:

Product AT USE DILUTION

ACUTE TOXICITY: ORAL - Category 4

Warning



Harmful if swallowed.

Wash hands thoroughly after handling.

Get medical attention if symptoms appear.

Section 2. Hazards identification

Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. 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 or physician.

- Storage** : No other specific measures identified.
- Disposal** : See section 13 for waste disposal information.
- Other hazards** : None known.

No other specific measures identified.
See section 13 for waste disposal information.
None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number
UREA	>50	57-13-6
Alkyl (60% ^{c14} 30% ^{c16} 5% ^{c12} 5% ^{c18}) dimethyl benzyl ammonium chloride	18.93	68391-01-5
Alkyl (68% ^{c12} 32% ^{c14}) dimethyl ethylbenzyl ammonium chloride	18.93	85409-23-0
amines, c12-18-alkyldimethyl	1 - 5	68391-04-8

Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
Eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.	No known effect after eye contact. Rinse with water for a few minutes.
Skin contact	: Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.	No known effect after skin contact. Rinse with water for a few minutes.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.	No special measures required. Treat symptomatically.
Ingestion	: Get medical attention immediately. Rinse mouth. Do not induce vomiting.	Get medical attention if you feel unwell. Rinse mouth.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	
See toxicological information (section 11)		

Section 5. Fire-fighting measures

Product AS SOLD

Suitable fire extinguishing media : Use water spray, fog or foam.

Specific hazards arising from the chemical : No specific fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
 carbon dioxide
 carbon monoxide
 nitrogen oxides

Specific fire-fighting methods : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

	Product AS SOLD	Product AT USE DILUTION
Personal precautions	: Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.	Use personal protective equipment as required.
Environmental precautions	: Avoid contact of spilled material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
Methods for cleaning up	: Collect spillage. Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

Section 7. Handling and storage

	Product AS SOLD	Product AT USE DILUTION
Handling	: Do not ingest. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Wash thoroughly after handling.	Do not ingest. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.
Storage	: Keep out of reach of children. Keep container tightly closed. Store between the following temperatures: 0 and 50°C	Keep out of reach of children.

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
None.	

Section 8. Exposure controls/personal protection

	Product AS SOLD	Product AT USE DILUTION
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Personal protection		
Eye protection	: Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.	No protective equipment is needed under normal use conditions.
Hand protection	: Use chemical-resistant, impervious gloves.	No protective equipment is needed under normal use conditions.
Skin protection	: Use suitable protective equipment.	No protective equipment is needed under normal use conditions.
Respiratory protection	: A respirator is not needed under normal and intended conditions of product use.	A respirator is not needed under normal and intended conditions of product use.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.	

Section 9. Physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
Physical state	: Extruded solid.	Liquid.
Color	: Red [Dark]	Red [Light]
Odor	: Faint odor	Faint odor
pH	: 6 to 9 (1%)	7.2 to 7.78
Flash point	: > 100°C Product does not support combustion.	> 100°C
Explosion limits	: Not available.	
Flammability (solid, gas)	: Not available.	
Melting point	: Not available.	
Boiling point	: Not available.	
Evaporation rate (butyl acetate = 1)	: Not available.	
Vapor pressure	: Not available.	
Vapor density	: Not available.	
Relative density	: 0.9 to 1.1 (Water = 1)	
Solubility	: Easily soluble in the following materials: cold water and hot water.	
Partition coefficient: n-octanol/water	: Not available.	
Auto-ignition temperature	: Not available.	
Decomposition temperature	: Not available.	
Odor threshold	: Not available.	
Viscosity	: Not available.	

Section 10. Stability and reactivity

- Product AS SOLD**
- Stability** : The product is stable.
 - Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
 - Conditions to avoid** : No specific data.
 - Materials to avoid** : Not available.
 - Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Route of exposure : Skin contact, Eye contact, Ingestion

- Product AS SOLD**
- Symptoms**
- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
 - Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
 - Inhalation** : Adverse symptoms may include the following:
coughing
Respiratory tract irritation
 - Ingestion** : Adverse symptoms may include the following:
stomach pains
- Acute toxicity**
- Eye contact** : Causes serious eye damage.
 - Skin contact** : Causes severe burns. Toxic in contact with skin.
 - Inhalation** : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
 - Ingestion** : Toxic if swallowed. May cause burns to mouth, throat and stomach.

Product AT USE DILUTION

No specific data.

No specific data.

No specific data.

No specific data.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Harmful if swallowed.

Toxicity data

Product/ingredient name				
urea	LC50 Inhalation	Rat	>2.71 mg/l	
	Dusts and mists			
	LD50 Dermal	Rat	8200 mg/kg	
quaternary ammonium compounds, benzyl-c12-18-alkyldimethyl, chlorides	LD50 Oral	Rat	8471 mg/kg	
	LC50 Inhalation	Rat	>0.054 mg/l	
	Dusts and mists			
quaternary ammonium compounds, c12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	LD50 Dermal	Rabbit	2300 mg/kg	
	LD50 Oral	Rat	850 mg/kg	
	LC50 Inhalation	Rat	>0.054 mg/l	
amines, c12-18-alkyldimethyl	Dusts and mists			
	LD50 Dermal	Rabbit	1501 mg/kg	
	LD50 Oral	Rat	304.5 mg/kg	
	LD50 Oral	Rat	1668 mg/kg	

Chronic toxicity

Section 11. Toxicological information

Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Section 12. Ecological information

Product AS SOLD

Ecotoxicity : No known significant effects or critical hazards.

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
urea	Acute LC50 127.9 mg/l	Fish	96 hours
quaternary ammonium compounds, benzyl-c12-18-alkyldimethyl, chlorides	Acute EC50 0.47 mg/l	Daphnia	48 hours
quaternary ammonium compounds, c12-14-alkyl [(ethylphenyl)methyl]dimethyl, chlorides	Acute EC50 0.0058 mg/l	Daphnia	48 hours
amines, c12-18-alkyldimethyl	Acute EC50 0.042 mg/l	Daphnia	48 hours

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : **Product AS SOLD**
 : Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Product AT USE DILUTION
 Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT

DOT Classification Not regulated.

IMO/IMDG

IMO/IMDG Classification UN3077

IMO/IMDG Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Quaternary ammonium compounds). Marine pollutant

Class 9

Packing group III

For transport in bulk, see shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

Section 15. Regulatory information

Product AS SOLD

U.S. Federal regulations

TSCA 8(b) inventory : All components are listed or exempted.

EPA Registration No. : 5389-20

SARA 302/304/311/312 extremely hazardous substances: No listed substance

SARA 302/304 emergency planning and notification: No listed substance

SARA 313	Product name	CAS number	Concentration
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Form R - Reporting requirements : No listed substance

California Prop. 65 : No listed substance

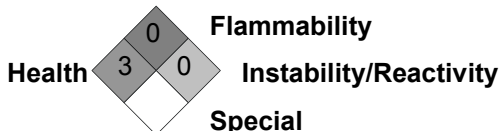
Section 16. Other information

Product AS SOLD

Hazardous Material Information System (U.S.A.) :

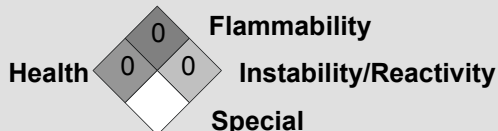
Health		3
Flammability		0
Physical hazards		0

National Fire Protection Association (U.S.A.) :



Product AT USE DILUTION

Health		0
Flammability		0
Physical hazards		0



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 1-800-352-5326

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.