

APEX SOLID QUAT BROAD RANGE SANITIZER

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) : Category 3
Acute toxicity (Dermal) : Category 3
Skin corrosion : Category 1A
Serious eye damage : 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

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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

Other hazards : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product AS SOLD

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 (%) |
| n-Alkyl(68% C12, 32% C14) dimethylethylbenzyl ammonium chlorides | 85409-23-0 | 0.0206 |
| n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chlorides | 68391-01-5 | 0.0206 |

SECTION 4. FIRST AID MEASURES

Product AS SOLD

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.

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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, protective equipment and

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

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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 STORAGE

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-No. | Form of exposure | Permissible concentration | Basis |
|------------|---------|------------------|---------------------------|-----------|
| Urea | 57-13-6 | TWA | 10 mg/m3 | AIHA WEEL |

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

Personal protective equipment

Eye protection : Due to the form and packaging of the product, no protective

equipment is needed under normal use conditions.

Hand protection : Due to the form and packaging of the product, no protective

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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 equipment

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 DILUTION

Appearance : Extruded solid. liquid

Color : dark red light red

Odor : slight slight

pH : 6.0 - 9.0, (1 %) 7.2 - 7.78

Flash point : Not applicable, Does not sustain combustion.

: No data available

Odor Threshold : No data available

Melting point/freezing point : No data available

Initial boiling point and : No data available

boiling range

Relative vapor density

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 density : 0.9 - 1.1
Water solubility : soluble

Solubility in other solvents : No data available Partition coefficient: n- : No data available

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octanol/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

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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

sensitization

Not a skin sensitizer.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 chlorides

4 h LC50 Rat: > 0.054 mg/l Test atmosphere: dust/mist

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n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl

ammonium chlorides LC50 Rat: > 0.054 mg/lTest 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 : No data available Toxicity to daphnia and other

aquatic invertebrates

Toxicity to algae : No data available

Components

Toxicity to fish : Urea

96 h LC50 Fish: 127.9 mg/l

Components

aquatic invertebrates

Toxicity to daphnia and other : 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

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

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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 reuse 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 reuse 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 : III
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

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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.

| Chemical Name | CAS-No. | Function | List(s) |
|-------------------------------|------------|----------------|----------------|
| n-Alkyl(68% C12, 32% C14) | 85409-23-0 | Biocide | Not Applicable |
| dimethylethylbenzyl ammonium | | | |
| chlorides | | | |
| n-Alkyl (60% C14, 30% C16, 5% | 68391-01-5 | Biocide | Not Applicable |
| C12, 5% C18) dimethyl benzyl | | | |
| ammonium chlorides | | | |
| water | 7732-18-5 | Processing Aid | Not Applicable |
| Colorant | Withheld | Dye | Not Applicable |

^{*}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):

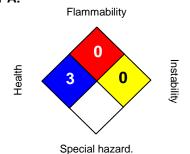
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APEX SOLID QUAT BROAD RANGE SANITIZER

On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

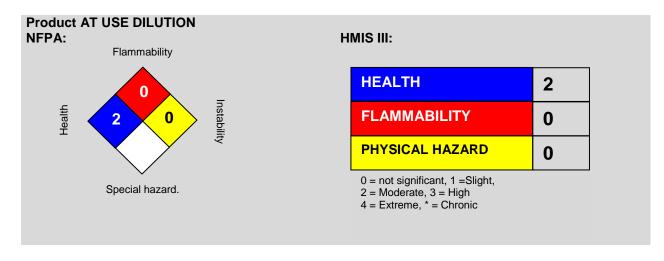
Product AS SOLD NFPA:



HMIS III:

| HEALTH | 3 |
|-----------------|---|
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |

- 0 = not significant, 1 = Slight,
- 2 = Moderate, 3 = High 4 = Extreme, * = Chronic



: 04/02/2019 Issuing date

: 1.3 Version

: Regulatory Affairs Prepared by

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.

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