

KAYQUAT II

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

KAYQUAT II

Other means of identification

Not applicable

Recommended use

Sanitizer

Restrictions on use

Reserved for industrial and professional use.

Product dilution information

0.19 % - 0.39 % ejes eige end

Company

Kay Chemical Company

8300 Capital Drive

Greensboro, North Carolina USA 27409

1-800-529-5458

Emergency telephone

1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

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Issuing date

01/23/2015

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Product AS SOLD

Skin corresion

Serious eve damage

Acute toxicity (Oral)

Acute toxicity (Dermal)

: Category 1B

: Category 1

: Category 4

: Category 4

Product AT USE DILUTION

Eye irritation

: Category 28

GHS Label element

Product AS SOLD

Hazard pictograms



Signal Word

: Danger

Hazard Statements

: Harmful if swallowed.

Harmful in contact with skin.

Causes severe skin burns and eye damage.

Precautionary Statements

Prevention:

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: Rinse mouth, Do NOT induce vomiting. Call a POISON CENTER or doctor/ physician if you feel unwell. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN

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SAFETY DATA SHEET		
KAYQUAT II		
	EVES: Rinse cautiously with y	vater for several minutes. Remove
	contact lenses; if present and Immediately call a POISON C contaminated clothing before Storage: Store locked up. Disposal:	easy to do. Continue rinsing. ENTER or doctor/ physician. Wash reuse.
	Dispose of contents/ containe	r to an approved waste disposal plant.
Product AT USE DILUTION Signal Word	Caution	
Hazard Statements	: Causes eye irritation.	
Precautionary Statements	: Prevention:	
	Wash skin thoroughly after ha Response:	
	IF IN EYES: Rinse cautiously contact lenses, if present and imitation persists: Get medical	with water for several minutes. Remove easy to do. Continue rinsing. If eye
Other hazards	: None known.	A Communication of the Communi
SECTION 3. COMPOSITION/IN	FORMATION ON INGREDIENT	'S
Product AS SOLD Pure substance/mixture	Mixture	
Chemical Name Alkyl (50% C14, 40% C12, 10% benzyl ammonium chloride		1 4
ethanol Octyl decyl dimethyl ammonium Dioctyl dimethyl ammonium chlo Didecyl Dimethyl Ammonium Ch	ride 5538-94-3	1.2.
Product AT USE DILUTION Chemical Name Octyl decyl dimethyl ammonium Dioctyl dimethyl ammonium chlo Didecyl Dimethyl Ammonium Chlo Alkyl (50% C14, 40% G12, 10% benzyl ammonium chloride	chloride 32426-11-2 pride 5538-94-3 iloride 7173-51-5 G16) dimethyl 68424-85-	0.0147 0.0047 0.007
SECTION 4. FIRST AID MEAS	JRES	
Product AS SOLD In case of eye contact	: Rinse immediately with plenty least 15 minutes. Remove cor Continue rinsing. Get medical	of water, also under the eyelids, for at tact lenses, if present and easy to do. attention immediately.
In case of skin contact	: Wash off immediately with ple a mild soap if available. Wash shoes before reuse. Get medi	nty of water for at least 15 minutes. Use clothing before reuse. Thoroughly clean cal attention immediately.
If swallowed	: Rinse mouth with water. Do N anything by mouth to an uncol immediately.	OT induce vomiting. Never give nscious person, Get medical attention
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KAYQUAT II Remove to fresh air. Treat symptomatically. Get medical attention if If inhaled symptoms occur. If potential for exposure exists refer to Section 8 for specific personal Protection of first-aiders protective equipment. Treat symptomatically. Notes to physician See Section 11 for more detailed information on health effects and Most important symptoms and effects, both acute and symptoms. delayed Product AT USE DILUTION Rinse with plenty of water. In case of eye contact Rinse with plenty of water. In case of skin contact Rinse mouth. Get medical attention if symptoms occur. If swallowed

Get medical attention if symptoms occur.

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SECTION 5, FIRE-FIGHTING MEASURES

If inhaled

Product AS SOLD Suitable extinguishing media	: Use extinguishing measures the circumstances and the surrour	nat are appropriate to local ading environment.
Unsuitable extinguishing media	: None knowп.	
Specific hazards during fire fighting	: Not flammable or combustible.	employ per a
Hazardous combustion products	: Decomposition products may in Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus	nclude the following materials:
Special protective equipment for fire-fighters	: Use personal protective equip	ment.
Specific extinguishing methods	: Fire residues and contaminate disposed of in accordance with and/or explosion do not breath	d fire extinguishing water must be local regulations. In the event of fire le fumes.
SECTION 6. ACCIDENTAL RE	LEASE MEASURES	

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

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Product AT USE DILUTION

Personal precautions, protective equipment and emergency procedures 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

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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

Wash hands thoroughly after handling.

Conditions for safe storage

Keep out of reach of children. Store in suitable labeled containers.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product AS SOLD

Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z1

Engineering measures

Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Eye protection

: Wear eye protection/ face protection.

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Hand protection	Wear the following personal protective equipment: Standard glove type. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakfarough.
Skin protection	Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
Respiratory protection	: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
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 Personal protective equipmen	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants. t
Eye protection	; No special protective equipment required.
Hand protection Skin protection	: No special protective equipment required. : No special protective equipment required.
Respiratory protection	: No personal respiratory protective equipment normally required.

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SECTION 9. PHYSICAL AND	CHEMICAL PROPERTIES	
	Product AS SOLD	Product AT USE DILUTION
Appearance	: liquid	liquid
Color	: clear, red	light pink
Odor	: slight	slight was a second of the
pĤ.	6.0 - 9.0, 100 %	8:0 141.4 141.1 141.1
Flash point	: Not applicable	
Odor Threshold	: No data available	
Melting point/freezing point	: No data available	which
Initial boiling point and boiling range	: > 100 °C	
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	: 0.984 - 1.008	
Water solubility	: soluble	
		ration .
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SAFETY DATA SHEET 4.7 KAYQUAT II No data available Solubility in other solvents No data available Partition coefficient: noctanol/water No data available Autoignition temperature No data available Thermal decomposition No data available Viscosity, kinematic No data available Explosive properties No data available Oxidizing properties Molecular weight No data available VOC No data available SECTION 10. STABILITY AND REACTIVITY Product AS SOLD Stable under normal conditions: Chemical stability No dangerous reaction known under conditions of normal use. Possibility of hazardous

reactions

Conditions to avoid : None known.

Incompatible materials : None known.

Hazardous decomposition products

Decomposition product Carbon oxides Nitrogen oxides (NOx) Sulfur oxides

Decomposition products may include the following materials: Carbon oxides

Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation, Eye contact, Skin contact

Potential Health Effects

Product AS SOLD

Eyes : Causes serious eye damage.

Skin : Harmful in contact with skin. Causes severe skin burns.

Ingestion : Harmful 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 : Causes eye irritation:

Skin : Health injuries are not known or expected under normal use.

ingestion : Health injuries are not known or expected under normal use.

Inhalation : Health injuries are not known or expected under normal use:

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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

Redness, Irritation

Skin contact

: No symptoms known or expected.

Ingestion

No symptoms known or expected.

Inhalation

: No symptoms known or expected.

Toxicity

Product AS SOLD

Acute oral toxicity

: Acute toxicity estimate 3,562 mg/kg

Acute inhalation toxicity

No data available

Acute dermal toxicity

Acute toxicity estimate : > 5,000 mg/kg

Skin corrosion/irritation

Respiratory or skin

sensitization

No data available

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

Ingredients

Acute inhalation toxicity

Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium

de

chloride

4 h LC50 Rat: > 0.054 mg/l

ethanol

4 h LC50 Rat: 117 mg/l

Octyl decyl dimethyl ammonium chloride

4 h LC50 Rat: 0.07 mg/l

Dioctyl dimethyl ammonium chloride

4 h LC50 Rat: 0.07 mg/l

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KAYQUAT II

Didecyl Dimethyl Ammonium Chloride 4 h LC50 Rat: 0.07 mg/l

SECTION 12. ECOLOGICAL INFORMATION

Product AS SOLD Ecotoxicity

Environmental Effects

: This product has no known ecotoxicological effects.

Product

Toxicity to fish

: No data available

Toxicity to daphnia and other

: No data available

aquatic invertebrates
Toxicity to algae

: No data available

Ingredients

Toxicity to fish

: ethanol

96 h LC50 Fish: 11,000 mg/L

Octyl decyl dimethyl ammonium chloride

96 h LC50 Fish: 1 mg/l

Didecyl Dimethyl Ammonium Chloride

96 h LC50 Fish: 1 mg/l

ingredients

Toxicity to daphnia and other aquatic invertebrates

: Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium

chloride

48 h EC50: 0.0059 mg/l

Dioctyl dimethyl ammonium chloride 48 h EC50 Daphnia : 0.1 mg/l

Persistence and degradability

No data available

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

The product should not be allowed to enter drains, water courses or the soil. 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.

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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

The product should not be allowed to enter drains, water courses or

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the soil.

Disposal considerations

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

3082

Description of the goods

: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

430

(quaternary ammonium compound)

Class

Packing group Marine pollutant

9 ; 111

: yes

Product AT USE DILUTION:

Not intended for transport.

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

EPA Registration number

: 6836-266-5389

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 Health Hazard

SARA 302

: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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

KAYQUAT II

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

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

United States TSCA Inventory:

On TSCA 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 : not determined

Japan, ISHL - Inventory of Chemical Substances (METI):

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

SECTION 16. OTHER INFORMATION

Product AS SOLD NFPA:

Flammability



Product AT USE DILUTION

HMIS III:

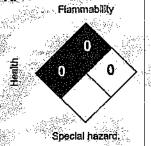
HEALTH FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,

2 = Moderate, 3 = High 4 = Extreme, * = Chronic

KAYQUAT II

NFPA:



HMIS III:

0 = not significant, 1 =Slight, 2 = Moderate, 3 = High

4 = Extreme, * = Chronic

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01/23/2015

1.0

: 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.