SAFETY DATA SHEET

CLEAN QUAT PLUS

Issuing date: 09.05.2025
Version: 1.4

SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY OR UNDERTAKING

1.1 Product identifier

Product name	:	CLEAN QUAT PLUS
Other means of identification	:	Not applicable
Type of substance	:	Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture	:	Disinfectant
Recommended restrictions on use	:	Reserved for industrial and professional use.
Product dilution information	:	Product is sold ready to use.

1.3 Details of the supplier of the safety data sheet

Company	:	ECOLAB Commercial address: Av Isidora Goyenechea #2800. of. 1102, Las Condes. Santiago. CP: 7550647 Production Plant address: Street Chorrillos Uno S/N Lote A13A, Lampa. Santiago. Santiago, Santiago Chile (2)-22413300, Telephone: (2)-22381603, Telephone: SAC: 600 241 6600 sac.chile@ecolab.com

1.4 Emergency telephone

Emergency telephone	:	(+56-2) 2635-3600 (CITUC) EMERGENCY PHONE
Toxicological Emergency Phone	:	CITUC (+56-2) 2635-3800 (24 hours) Toxicological Emergencies

SECTION 2. HAZARD OR HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Hazard classification

Skin corrosion/irritation	:	Category 1	H314
Serious eye damage/eye irritation	:	Category 1	H318
Long-term (chronic) aquatic hazard	:	Category 3	H412

2.2 Label element

Hazard pictograms :

Signal Word : Danger

Hazard Statements : H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
Response:
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.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310 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.
P363 Wash contaminated clothing before reuse.
Storage:
P405 Store locked up.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

Other hazards : None known.

SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Pure substance/mixture Mixture

Chemical name	CAS-No.	Classification	Concentration (%)
Nonylphenol ethoxylate	9016-45-9	Skin irritation Category 2; H315 Eye irritation Category 2; H319 Short-term (acute) aquatic hazard Category 1; H400 Long-term (chronic) aquatic hazard Category 1; H410	5 - < 10
disodium metasilicate	6834-92-0	Skin corrosion Sub-category 1B; H314 Specific target organ toxicity - single exposure Category 3; H335 Acute toxicity Category 4; H302 Serious eye damage/eye irritation Category 1; H318	1 - < 5
potassium hydroxide	1310-58-3	Corrosive to Metals Category 1; H290 Acute toxicity Category 4; H302 Skin corrosion/irritation Sub-category 1A; H314 Serious eye damage/eye irritation Category 1; H318	1 - < 5

Nitrilotriaceticacid[NTA] Salt	5064-31-3	Acute toxicity Category 4; H302 Eye irritation Category 2; H319 Carcinogenicity Category 2; H351	1 - < 5
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	68424-95-3	Acute toxicity Category 4; H302 Acute toxicity Category 4; H312 Skin corrosion Sub-category 1B; H314 Serious eye damage Category 1; H318 Short-term (acute) aquatic hazard Category 1; H400	1 - < 5

SECTION 4. FIRST AID MEASURES

4.1 Description of first-aid measures

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. 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.

4.2 Most important symptoms and effects, both acute and delayed

Expected acute effects

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

Expected chronic effects

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

Most important symptoms / effects

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	:	Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing agents	:	None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting	:	Not flammable or combustible.
Hazardous combustion products	:	Decomposition products may include the following materials: Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus

5.3 Advice for firefighters

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

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel	:	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.
Advice for emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

6.2 Environmental precautions

Environmental precautions	:	Do not allow contact with soil, surface or ground water.

6.3 Methods and materials for containment and cleaning up

Methods for 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.

6.4 Reference to other sections

For personal protection see section 8.
See Section 13 for additional waste treatment information.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling

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. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).

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.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements for storage areas and containers : Do not store near acids. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Storage temperature : 0 °C to 45 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Ingredients with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
potassium hydroxide	1310-58-3	CMP-C	2 mg/m3	AR OEL
potassium hydroxide	1310-58-3	LPA	2 ppm	CL OEL
potassium hydroxide	1310-58-3	CEIL	2 mg/m3	PE OEL
potassium hydroxide	1310-58-3	LB	2 mg/m3	VE OEL
potassium hydroxide	1310-58-3	VLE-P	2 mg/m3	NOM-010-STPS-2014
potassium hydroxide	1310-58-3	C	2 mg/m3	ACGIH
		Ceiling	2 mg/m3	NIOSH REL

8.2 Exposure controls

Appropriate engineering controls : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Individual protection measures

Eye protection : Safety goggles

		Face-shield
Hand protection	:	Wear the following personal protective equipment: Impervious gloves, resistant to chemicals. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin protection	:	Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing Wear closed shoes.
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.
Thermal Hazard eqipment	:	Use personal protective equipment.

The Personal Protective Equipment (PPE) recommendations provided above have been made in good faith based on typical expected conditions of use. PPE selection should always be completed in conjunction with a proper risk assessment and in accordance with a PPE management program.
See Section 5 for more detailed information on firefighting measures.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Color	:	clear, blue
Odor	:	ammoniacal
pH	:	12,9 - 13,7, (100 %)
Flash point	:	Not applicable, Does not sustain combustion.
Odor Threshold	:	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)	:	Not applicable
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	:	1,01 - 1,045
Water solubility	:	soluble
Solubility in other solvents	:	No data available
Partition coefficient: n-	:	No data available

octanol/water		
Autoignition temperature	:	No data available
Thermal decomposition	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Molecular weight	:	No data available
VOC	:	No data available

9.2 Other information

No data available

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity : No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Chemical stability : Stable under normal conditions.

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Acids
Organic materials

10.6 Hazardous decomposition products

Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:
Carbon oxides
Nitrogen oxides (NOx)
Sulfur oxides
Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Toxicity

Product

Acute oral toxicity :

Acute toxicity estimate : > 2.000 mg/kg

Acute inhalation toxicity	:	4 h Acute toxicity estimate : > 5 mg/l Test atmosphere: dust/mist
Acute dermal toxicity	:	Acute toxicity estimate : > 2.000 mg/kg
Skin corrosion/irritation	:	No data available
Serious eye damage/eye irritation	:	No data available
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

Potential Health Effects

Eyes	:	Causes serious eye damage.
Skin	:	Causes severe skin burns.
Ingestion	:	Causes digestive tract burns.
Inhalation	:	May cause nose, throat, and lung irritation.
Chronic Exposure	:	Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact	:	Redness, Pain, Corrosion
Skin contact	:	Redness, Pain, Corrosion
Ingestion	:	Corrosion, Abdominal pain
Inhalation	:	Respiratory irritation, Cough

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Environmental Effects	:	Harmful 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 : disodium metasilicate
96 h LC50 Fish: 210 mg/l

Nitrilotriaceticacid[NTA] Salt
96 h LC50 Pimephales promelas: 114 mg/l

Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides
96 h LC50 Fish: 1 mg/l

Components

Toxicity to daphnia and other aquatic invertebrates : Nitrilotriaceticacid[NTA] Salt
48 h EC50 Aquatic Invertebrate: 80 mg/l

Components

Toxicity to algae : Nitrilotriaceticacid[NTA] Salt
72 h EC50 Scenedesmus subspicatus: > 91,5 mg/l

12.2 Persistence and degradability

Product

Biodegradability : Poorly biodegradable

Components

Biodegradability : Nonylphenol ethoxylate
Poorly biodegradable

potassium hydroxide
Not applicable - inorganic

Nitrilotriaceticacid[NTA] Salt
Readily biodegradable.

Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides
Eliminated from aquatic environment

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product : Do not contaminate storm water drains, natural waterways or soil 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.

Contaminated packaging	:	In accordance with what is described by Supreme Decree No. 148, the packaging of the product is considered hazardous waste and must be disposed of through companies authorized to receive and / or treat such waste, which must be issued and final disposal certificate waste.
Contaminated packaging	:	In accordance with what is described by Supreme Decree No. 148, the packaging of the product is considered hazardous waste and must be disposed of through companies authorized to receive and / or treat such waste, which must be issued and final disposal certificate waste.

SECTION 14. TRANSPORT INFORMATION

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

Classification according to NCH 382 : Class: Class 8 Corrosives

Distintivo según NCh 2190 :

Land transport
Official transport classification of the United Nations

UN number	:	3266
Description of the goods	:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
		(Potassium hydroxide, sodium metasilicate)
Class	:	8
Packing group	:	III
Environmentally hazardous	:	no

Air transport (IATA)
Official transport classification of the United Nations

Contact Regulatory for air freight eligibility

Sea transport (IMDG/IMO)
Official transport classification of the United Nations

UN number	:	3266
Description of the goods	:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
		(Potassium hydroxide, sodium metasilicate)
Class	:	8
Packing group	:	III
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	:	Not applicable
Marine pollutant	:	no

SECTION 15. REGULATORY INFORMATION

Registrations and Certifications

Chile: Our SDS meets Chilean Normative: DS 57/2019.

The receiver should pay attention to the possible existence of local regulations.

NCh 1411: Prevention of risks, IV identification of risks of materials
NCh 2190: Transportation of Hazardous Substances - Pictograms for hazard identification

NCh 382: Dangerous Good - Classification
D.S. No. 594: Minimum basic conditions in the workplace
D.S. No. 148: Hazardous waste disposal
D.S. No. 132: Mining Safety Regulations
D. S. No. 43: reports on the storage of hazardous substances
D. S. No. 44: Reporting on exposure hazards

SECTION 16. OTHER INFORMATION

Procedure used to derive the classification according to Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

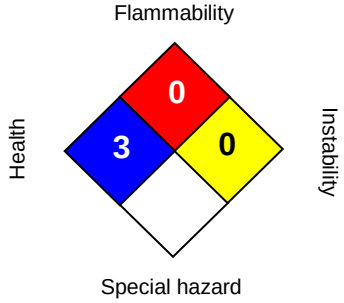
Classification	Justification
Skin corrosion/irritation 1, H314	Based on product data or assessment
Serious eye damage/eye irritation 1, H318	Based on product data or assessment
Long-term (chronic) aquatic hazard 3, H412	Calculation method

Full text of H-Statements

Full text of other abbreviations

CITUC - Centro de Información Toxicológica de la Universidad Católica. CAS - Chemical Abstracts Service. PPE - Personal Protective Equipment. IC50 – Half maximal inhibitory concentration. VLE-P - Valeurs Limites d'exposition Professionnelle. CLP – Classification Labelling Packaging Regulation. TWA - total weight average. C – Celsius. pH - Potential of hydrogen. STOT - single exposure - Specific target organ toxicity- single exposure. STOT - repeated exposure - Specific target organ toxicity- repeated exposure. UN number - United Nations number. IATA - International Air Transport Association. IMDG - International Maritime Dangerous Goods. IMO - International Maritime Organization. IBC Code - International Bulk Chemical Code. LC50 – Lethal Concentration to 50 % of a test population; LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose). NFPA - National Fire Protection Association. HMIS - Hazard Materials Identification System. SDS - Safety Data Sheet.

NFPA:



HMIS® IV:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

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Prepared by : Regulatory Affairs

While there is no change in the formula or hazard classifications, this SDS remains valid.

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 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.