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31/07/08 replaces 04/04/08, 26/01/07 etc, ref #h1995 (cross-ref -), non-regulated, review 04/04/2013 at any change.

Envirolyte NZ Ltd, 212 Mountfield Rd, RD2, Waipu, NZ.
Attention John Goodwin Ph 0274972440, fax 094321240, john.envirolyte@xtra.co.nz
cc Tony Rumney, N.Z.F.S.A, PO Box 2835 Wellington? (only if regulated farm det/sanitiser).

To whom it may concern,

1 Envirolyte NZ Ltd Envirolyte ANK Neutral Anolyte (& components - Envirolyte K catholyte & Envirolyte A Anolyte) from Envirolyte EL900 to EL/ELA 6000 & EL/ELA 10000 machines.

- Which is: sanitiser neutral Chlorine (generated),
- For use for: food area, indirect contact,
- With: food contact surfaces drained, rinsed and dried (or pre-rinsed)
- Approval status: completed trials**** and full approval,

Passed AsureQuality* assessment for food/beverage/dairy/factory food contact surfaces drained, rinsed and dried (/indirect contact) ref #h1995 with conditions. This excludes other animal products but may be a recommendation for NZFSA recognition or for RMP holders.

Conditions:

- General conditions: generator used per instructions with ORP/redox potential control referenced to chemical titration e. g. 50-200 mg/kg Chlorine-equivalent with normal reduction of residue transfer to food (eg drain & rinse reduction of 5000 times c. f. USA drain reduction of 300 times). For uses permitted and not prohibited & refer to standards & partial list below.
- **Special conditions: with care to avoid electrode mis-use & catalyst loss.**
- Approval conditions: Subject to notification of change, review within 5 years, inclusion of the approval statement level of contact, and activation by (counter)signing.

1 Envirolyte NZ Ltd Envirolyte ANK Neutral Anolyte (& components - Envirolyte K catholyte & Envirolyte A Anolyte) from Envirolyte EL900 to EL/ELA 6000 & EL/ELA 10000 machines.

- Which is: sanitiser neutral Chlorine (generated),
- For use for: factory food area potable process water, and food rinse water,
- Approval status: completed trials**** and full approval,

Passed AsureQuality* assessment for food/beverage/dairy/factory potable process/bottled - water treatment ref #h1995 with conditions. This excludes other animal products but may be a recommendation for NZFSA recognition or for RMP holders.

Conditions:

- General conditions: generator used per instructions with ORP/red-ox potential control referenced to chemical titration with Chlorine Residual equivalent to > 0.05 mg/kg residual after >20 minute treatment. With Chlorine residue limits ANZFA 1.3.3.11 potable bottled/process water to 10 mg/kg available in food. 1.3.3.12 bleaching washing peeling to 1mg/kg in food. For uses permitted and not prohibited & refer to standards & partial list below.
- **Special conditions: with care to avoid electrode mis-use & catalyst loss.**
- Approval conditions: Subject to notification of change, review within 5 years, inclusion of the approval statement level of contact, and activation by (counter)signing.

Administration detail:

- ** Asurequality assessment is a non-regulated, voluntary, and evidential certification by the supplier, independently confirmed, without prejudice or guarantee, against checklist standards for food safety as shown in the report attached for your verification. It can be used in food/beverage programme purchasing. ***It excludes NZFSA meat/fish/game specifically regulated approvals & is a recommendation for their specifically legislated farm dairy detergent/sanitiser approval.
- *The purpose of this work is to ensure that when used according to instructions products perform without compromising food safety, protect it when this is part of their function, and they should not have other apparent adverse effects for production.
- Compliance vs HACCP risk standards is via coded identities linked to confidential appendices protected by legislation with a partial list of standards compliant, or used, listed: Animal Prods Act, RMP/PSPs, Quality Manual, Approval System Procedures.
- Formulation 100% (used for food contact surface sanitiser) Animal Products Act, Quality Manual, Approval Procedures, D & S Manf COP/D&S stds & analytical methods. USA label, & msds found as standard w/o toxicity/ecology Refer to raw materials
- Raw 1 salt: FDA21CFR & ANZFA found as food/ingredient. Cf also Food Chemicals Codex.
- Raw 2 sanitiser: USAFDA21CFR 178.1010 food contact surface sanitiser to 200 mg/kg not necessarily rinsed/dairy USAFDAPMO down to 50 mg/kg. ANZFA 1.3.3.11 potable bottled/process water to 10 mg/kg available in food. 1.3.3.12 bleaching washing peeling to 1mg/kg in food. NZDWS potable water Chlorine guide 0.2mg/kg (replaces part of E coli tests & aesthetic limit 0.6 mg/kg). EU sanitiser survey list. BS5350, IDF 9101 & Bull 288. BS5350, IDF 9101 & Bull 288.

- Raw 3 ubiquitous and safe.
- Raw 4 other may be present 0.01%: USAFDA21CFR 178.1005 to residue of 0.5 mg/kg in test rinse of milk containers. ANZFA 1.3.3.11. 1.3.3.12. . IDF 9101& Bull 288.
- Raw 5 Food grade plastic – Black.... body components present in the EL900 unit (significant contact trials 04/08) NSF51 for FDA John Guest Ltd and confirmed found on <http://www.nsf.org/certified/food/listings.asp?company=20520> & ditto " & standard" ISO 14001/2004/SIRA design and manf of metal & plastic push fit connectors. ISO 9001/BSI similar connectors & pipes for...water....drink dispensing.... Also found UK & Scot Water Supply & lab reports refer EC Dir 97/48/EC.
- Raw 6 Food grade plastic in EL900: dto above NSF 51, ISO 14001, ISO 9001, & also UK & Scot Water Supply Regs J Guest LLDPE tube 4-15 mm FOUNDas 0703114 to 21/03/2012. (Cf the other FG standards are eg USAFDA21CFR177.1520
- Raw 7 Other fittings in EL 900 or other have low surface area & are USAFDA lists ... but wants extraction.
- Raw 8 in EL900 or other..Cathode and anode metalsrefers tp concentration calculations and UK food survey of 0.002 mg/kg
- Raw 9 Manifold and end cap clear material added for ELA6000 Enviroylte with picture - awaiting assessment & outside potable/direct contact trial.
- Raw 10 plastic cover in EL900 Polycarbonate composition of generator (not applicable for contact).
- ****Efficacy trials are reported on confidentially by Fonterra's Richard Cradock, Corrine Nichol, Gerhard Hoppe/Steve Flint/Fred Mens. They address Anolyte, Catholyte and their combination on organisms including B cereus, Ps fluorescens, S aureus, E coli, and B Subtilis. Also Fonterra Whareroa's Tracy Brokenshire practical trial use for general micro and phage. Results confirmed practical efficacy for use with GMP.

AsureQuality NZ Ltd..... *R Hutchison* Date:31/07/08.....
Signed on original & file

Supplier:..... Date:.....

Contents

0 Information is to be evidential (std 0).	1 Materials safety and residues etc
2 Material (other – function)	3 Quality assurance certificate
4 Purity (or Design, formulation, fabrication and finish).	5 Instructions
6 Freedom from apparent side effects	7 Efficacy or hygiene to meet food safety margins
8 Packaging safety.	9 Summary of submitted information etc
10 Standards/References - front page/may be attached	11 Contacts.
12 Confidential information re design, formulation etc.	13 Covering letter & then 14 Raw material confidential information

Risk Rating (failure/accident).

	Chemical	Microbiological
Incidence	Low (per use rate)	High
Susceptibility	Low-High (Low except for surface sanitiser and High for water)	Low if unit application is full effective. High if ORP-red-ox low margin against especially post-pasteurisation contamination.
Severity	Low-moderate needs preconditioning or extraction test (for plastics) and needs care not to misuse or overuse electrode.	High (Moderate prior to pasteurization).
Total	Low-	High (needs ORP/red-ox calibration by trials and ongoing monitoring).

EVALUATION:

Note that Standards, (per Code and Standards and Methods) are compared with responses from submission etc information. This yields compliance status in each of the sections below.

NATURE OF INFORMATION

0 Standard: Assurance information is to be evidential/cross-registered/or ex accredited bodies (and approvals may need levels of independence for toxicity and efficacy).

Response/status: information appears to comply with this standard.