

07/10/2019 H4186

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To whom it may concern,

PYNZ28

- Product description: pesticide, insecticide natural pyrethrins oil in water concentrate pyrethrum
- Product use: for fruit, vegetable or ornamental crops & industrial & urban applications

“Passed AsureQuality assessment for food/beverage/dairy factory with no contact with food, including from contact surfaces, vents or packaging per residue removed & decayed category A - H4186” with conditions.

This assessment was prepared by Global Proficiency Ltd using HACCP principles to determine equivalence with food standards listed below. See <http://assessedproducts.asurequality.com>. This supports food Risk Management Programmes & other endorsements that may apply to this product include MPI regulated farm dairy approval, MPI dairy factory endorsement, MPI regulated non-dairy animal product approvals, EPA HSNO-OSH-environment approval (& previously AQIS).

Conditions:

- Used per instructions, legislation & GMP with no potential contact with food including via contact surfaces/ packaging/ vents - any residue removed & decayed. Used per a pest control programme in non-operating exposed food areas - in non-space spray application. - with any contact surface residue removed.
- The assessment is subject to notification of change and expires on 07/10/2024.
- The full report is attached for supplier review and verification & is activated by countersigning & inclusion of assessment precautions / assessment statement / MPI dairy statement

Prepared by Global Proficiency for AsureQuality Ltd by Bob Hutchinson PhD SENIOR DEVELOPMENT SCIENTIST



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

Scope and purpose of the assessment:

- Asurequality assessment is a non-regulated, voluntary, and evidential certification by the supplier demonstrating equivalence with food safety standards, and also that product instructions address hazards for staff & equipment. The assessment is independently confirmed, without prejudice or guarantee, using information submitted by the supplier or from other sources. Confidentiality of the product formulation is maintained using coded material identifiers in the report, and appendices containing confidential information are provided only to the supplier.
- Scope: NZ checks (FSANZ, US FDA 21 CFR/ NSF, Food Chemicals Codex, EPA NZ, EU, French culinary listings or related data for equivalent safety). NZ background (Animal Products Act, Risk Management Programmes. Detergent & Sanitiser Manufacturer's Code of Practice, Detergent & Sanitiser Standards and Analytical Methods. Quality Manual - Assessment Procedures

Summary of assessment with risks highlighted

- Prior registrations (New AsureQuality assessment A. EPA New Zealand HSNO Approval Code or Group Standard HSR100392.HSNO Chemical Classification 6.3B, 6.5A, 6.5B, 6.8C, 6.9B, 9.1A, 9.3C, 9.4A. Registered ACVM Act 1997 not yet. NZFSA non-dairy animal product type A not yet).
- Food safety (is by low carryover & decay for active, evaporation of solvent, & nil-negligible carryover of others vs other use & registrations show tabled from within the grouping NICNAS AICS. FSANZ, US FDA 21 & 40 CFR/ NSF, Food Chemicals Codex, EPA NZ, EU, French culinary listings, WHO or MPI, or related data for equivalent safety). Purity (is listed for the active). Carryover effects shown nil - negligible and shown prior to active decay and solvent evaporation).
- QA (unrequired for essentially non-contact).
- QC (Chemistry per food safety above and micro safety wants care with fresh solutions etc).
- Instructions –
 - Label (READ ENTIRE LABEL BEFORE USE. SHAKE OR STIR This product is a fast-acting natural insecticide. It controls a range of insect pests by contact action. DIRECTIONS FOR USE: MIXING: Add concentrate to water at a ratio of 10ml per litre of water and mix well before spraying. Agitate frequently while spraying. Use diluted spray mixtures within 24 hours. Apply to areas harbouring insects and to surfaces where insects are crawling. APPLICATION: Do not apply in direct sunlight or when temperatures exceed 32°C. COMPATIBILITY: Do not mix with lime sulphur, Bordeaux mixture or any other alkaline materials. WITHHOLDING PERIOD: 1 Day HAZARD CLASSIFICATION: 6.3B, 6.5A, 6.5B, 6.8C, 6.9B, 9.1A, 9.3C, 9.4A The maximum application rate of this product is 2L/Ha with a maximum of 5 applications per season. WARNING: May be harmful if swallowed, inhaled or absorbed through the skin. May cause eye irritation, avoid contact with the eyes. May cause allergy or asthma symptoms or breathing difficulties if inhaled, avoid inhalation of vapours or mist. FIRST AID: detailed. PERSONAL PROTECTION: When handling, wear chemical resistant gloves, eye protection, overalls and boots. DO NOT eat, or drink while using. Wash thoroughly after use and before eating. ECOTOXIC: Very toxic to aquatic life. Do not apply onto or into water and avoid contamination of any water supply with chemical or empty container. STORAGE: Store in original container, tightly closed, away from foodstuffs. Keep out of reach of children. Diluted spray solutions must be used on the same day they were mixed. DISPOSAL
 - SAFETY DATA SHEET: Approved pursuant to the HSNO Act 1996, No: HSR100392. REGISTERED TO: PyrethrumNZ Limited EMERGENCY PHONE: 06 876 8557 Product Name PYNZ28 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Pyrethrum) UN Number 3082 Recommended Use Insecticide EPA HSNO HSR100392 HSNO

Chemical Classification 6.3B, 6.5A, 6.5B, 6.8C, 6.9B, 9.1A, 9.3C, 9.4A GHS H316 – Causes mild skin irritation. H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 – May cause an allergic skin reaction. H362 – May cause harm to breast-fed children. H373 – May cause damage to organs through prolonged or repeated exposure. H412 – Very toxic to aquatic life with long lasting effects. H433 – Harmful to terrestrial vertebrates. H441 – Very toxic to terrestrial invertebrates. Precautions listed. Composition - Pyrethrum CAS 8003-34-7 1-5% Hydrotreated kerosene 64742-47-8 1-5% Other ingredients Proprietary Balance Exposure controls Pyrethrum: TWA 5 mg/m³. BHT: TWA 10 mg/m³. Hydrotreated Kerosene: ACGIH 525 mg/m³ (TWA). No TELs or EELs have been set by NZ EPA at this time. Toxicology ATEmix (oral) >5 000 mg/kg ATEmix (dermal) >2 000 mg/kg. Toxicology Skin corrosion/irritation May cause mild skin irritation. Serious eye damage/eye irritation Not classified. Sensitization May cause an allergic skin reaction and allergy or asthma symptoms or breathing difficulties if inhaled. Germ cell mutagenicity Not classified. Carcinogenicity Not classified. Reproductive toxicity May cause harm to breast-fed children. Specific Target Organ Toxicity [STOT] - single exposure Not classified. Specific Target Organ Toxicity [STOT] - repeated exposure May cause organ damage from repeated oral exposure at high doses. Aspiration hazard Not classified. Approved HSNO 1996 must be under the control of an approved handler when applied in a wide dispersive manner; or by a commercial contractor & details.

- o Additions to label to suit food premises- APPLICATION: Apply complete coverage of the target area and spray to the point of run off. Do not apply in direct sunlight or when temperatures exceed 32C. PRECAUTIONS: Keep out of reach of children. Avoid contact with skin and inhalation of spray mist. Avoid contact with food utensils or places where food is prepared. Do not eat drink or smoke while using. Wash thoroughly after using.
- Adverse effects (per SDS hazards listed & per NICNAS AICS list & EPA NZ report. Production side effects ok per essentially non-contact & food listings, & low contact).
- Efficacy (is by Pyrethrum NZ claim vs registrations of the active).

Contents (This is a simplified report with sections 2-11 replaced by a summary on p1 and in the table in section 1)

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	Low
Susceptibility	Low	Low
Severity	Low	Low
Total	Low	Low

Organics

For organic production when food is absent during use and residues are rinsed etc. Reference NZS8410 Organic Production section 10 Storage, transport, preparation and handling. 10.1.2 Where the premises vehicles and equipment are used solely for organic products: (a) Only those substances used in table D1 shall be used for housekeeping purposes in the presence of the product (note that product absence is already a requirement of this assessment). If other materials are used for cleaning, surfaces that could come in contact with organic products shall be flushed with potable water prior to re-entry of organic products, and any airborne substance dispersed. (b) If there are products of more than one organic status (e. g. organic and in conversion to organic), the requirements of 10.1.3 shall be followed as if the higher status organic product were in the presence of products not complying with this standard. 10.1.3 (Note that if not dedicated to organics then the plan must state how there is no non-organics inclusion including “sealing, labelling, & documentation”).

Evaluation: Note that Standards vs. submission-responses yield 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).

- Prior registrations (New AsureQuality assessment A. EPA New Zealand HSNO Approval Code or Group Standard HSR100392.HSNO Chemical Classification 6.3B, 6.5A, 6.5B, 6.8C, 6.9B, 9.1A, 9.3C, 9.4A. Registered ACVM Act 1997 not yet. NZFSA non-dairy animal product type A not yet).

1 Standard:

Raw materials are to be identified safe: traceably identified, non-toxic, and pure - depending on the level of contact. Raw materials are to be safe at residue levels with safety factors (simplified here eg per cross-registration of USFDA 21 CFR/ ANZF/ EU etc registrations factored for likely equivalence and recognising high 1.5 L milk consumption would have been required by FDA etc – refers to supplier confidential appendix but with identifiers excluded

Response

(PyrethrumNZ) PYNZ28 H4186 30-07-2019	Registrations column. Scope: NZ checks (NICNAS AICS, FSANZ, US FDA 21 & 40 CFR/ NSF, Food Chemicals Codex, EPA NZ, EU, French culinary listings, WHO or MPI, or related data for equivalent safety). NZ background (Animal Products Act, Risk Management Programmes. Detergent & Sanitiser Manufacturer's Code of	Purity column Scope: Purity column raw purities to be per FSANZ purity wanted (as ingredient etc) FCC7 2010-2011 with GMP indicators & FSANZ also (require Pb<2, As<1, Heavy metals <40 mg/kg). Purity column.
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