

16/09/2020 reference H3534

Arandee Ltd, P O Box 12448, Penrose, Auckland, 108
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Contact Sarah Rogers sarahr@arandee.co.nz

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Global Proficiency Ltd for AsureQuality Ltd,
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Enderley, Hamilton 3241, P O Box 20474
Hamilton

To whom it may concern,

MAC Slay Surface Spray / Crack & Crevice Residual Insecticide

- Product description: pesticide, insecticide, residual (Permethrin, D-Phenothrin).
- Product use: for control of insect pests listed in instructions

"Passed AsureQuality assessment for food/beverage/dairy factory non-contact per localised/ spot/ crack-crevice application H3534 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 food contact, away from exposed contact surfaces, packaging, & vents e.g. using localised / spot / crack / crevice application with any incidental contact surface residue removed - or used outside the area. Used in conjunction with an approved pest control programme where applicable
- The assessment is subject to notification of change and expires on 16/09/2025.
- The full report is attached for supplier review and verification. The assessment is activated by countersigning & inclusion of assessment precautions / assessment statement / MPI dairy precautions.

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 (NICNAS AICS. 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 any risks highlighted:

- Information & prior assessments (Ministry of Primary Industries approved Type A (including dairy) Renewed AsureQuality residual/ spot application. HSNO HSR000276).
- Food safety (Safety is expected per distancing from food contact, residue and ingredients listings within the column header group above). Ingredient purity (is inferred low risk for non-contact in food areas). Residue carry over (is not calculated w/o spray dosage).
- QA/ QC (Unrequired for non-contact and formula is contained anhydrous against micro contamination)
- Instructions –
 - Label (Mac Slay Crack & crevice residual insecticide. Kill Insects fast. Actives 20g/kg d-Phenothrin, 20 g/kg permethrin. Invisible odourless barrier penetrates hard to reach areas. Long lasting formulation. All animal products including dairy. 500 ml net. Directions Shake. Hold upright. Fit extension & remove tear tab. Use extension tube to penetrate cracks and crevices & spray with 3 second burst, then re-position. Exit area and remain outside the treated area until spray dried. Precautions: Do not apply to humans, pets, plants or feed. Cover or remove foodstuffs, dishes, utensils & food handling equipment. For ceiling treatment cover surface below with plastic shielding. Keep people and pets out of area during application. Eco-toxic to aquatic life and bees - cover any aquariums/ ponds. Turn off electrical appliances, extinguish pilot lights. Do not use as a room spray. Caution keep out of reach of children. Extremely flammable with precautions. Warning against misuse by inhaling etc. First Aid. Poisons information centre. Propellant hydrocarbons ozone safe. Arandee contacts. Panels completed for use vs crawling insects in hard to reach places per extension tube. Includes wall cavities, plumbing entries, behind appliances, vents, fixtures & mixed carpet wood media, sheltered outdoor areas masonry & joints, & commercial strength for manufacturing, processing, hospitality, healthcare and education. I Approved MPI type A animal products including dairy & transitional facility. AsureQuality food beverage dairy & EPA HSRF000276. See www.arandee.co.nz). (MAC Slay Residual Insecticide Fogger sighted & similar. MAC Slay Surface Spray Residual Insecticide sighted similar).
 - SDS (MAC Slay Surface Spray Residual Insecticide, MAC Slay Crack & Crevice Residual Insecticide w/trigger, MAV Slay Fogger Residual Insecticide 500 ml 150 g aerosols per Arandee with contacts. Hazards – DG for transport. Danger. Flammable aerosol cat 1, skin sensitisation cat 1, respiratory sensitisation cat 1, specific target organ systemic toxicity repeat exposure cat 2, aquatic toxicity acute cat 1. GHS Hazard statements similarly. Precautions statements. Composition (d-Phenothrin <5%,

Permethrin <5%, Isoparaffinic hydrocarbon multiple CAS <26%. Hydrocarbon propellant blend C2H2F4 <70% CAS 74-98-6, 106-97-8) Exposure control listed and limit stated for LPG as TWA 1800 mg/m3. Properties include explosion limits not available. Toxicology related to Hazards + asphyxiant narcotic & LD50 oral rat >5000 mg/kg & chronic effects unfound. Ecology listed. Regulatory HSNO HSR203851 & MPI & AsureQuality type A as above).

- Side effects (per instructions & SDS & refer NZIoC & AICS. Production effects not expected per non-contact & raw material food / safety listings).
- Efficacy (Is per 5 years use & active levels vs MRLs)

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 (standard 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).

- Information & prior assessments (Ministry of Primary Industries approved Type A (including dairy) Renewed AsureQuality residual/ spot application. HSNO HSR000276).

Raw materials:

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

(Arandee Ltd) MAC Slay Surface Spray / Crack & Crevice Residual Insecticide H3534 16-09- 2020	Registrations column. Scope: checks (Food Standards Australia NZ, NICNAS AICS, US FDA 21 & 40 CFR/ NSF, Food Chemicals Codex, EPA NZ, EU, French culinary listings, WHO or MPI, or related data for equivalent safety). Background (Accord, Animal Products Act, Risk Management Programmes. Detergent & Sanitiser Manufacturer's Code of Practice, Detergent & Sanitiser Standards and Analytical Methods. Quality Manual - Assessment Procedures	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.
Instructions & HACCP - Label.	(Label (Mac Slay Crack & crevice residual insecticide. Kill Insects fast. Actives 20g/kg d-Phenothrin, 20 g/kg permethrin. Invisible odourless barrier penetrates hard to reach areas. Long lasting formulation. All animal products including dairy. 500 ml net. Directions Shake. Hold upright. Fit extension & remove tear tab. Use extension tube to penetrate cracks and crevices & spray with 3 second burst, then re-position. Exit area and remain outside the treated area until spray dried. Precautions: Do not apply to humans, pets, plants or feed. Cover or remove foodstuffs, dishes, utensils & food handling equipment. For ceiling treatment cover surface below with plastic shielding. Keep people and pets out of area during application. Eco-toxic to aquatic life and bees - cover any	SDS (MAC Slay Surface Spray Residual Insecticide, MAC Slay Crack & Crevice Residual Insecticide w/trigger, MAV Slay Fogger Residual Insecticide 500 ml 150 g aerosols per Arandee with contacts. Hazards – DG for transport. Danger. Flammable aerosol cat 1, skin sensitisation cat 1, respiratory sensitisation cat 1, specific target organ systemic toxicity repeat exposure cat 2, aquatic toxicity acute cat 1. GHS Hazard statements similarly. Precautions statements. Composition (d-Phenothrin <5%, Permethrin <5%, Isoparaffinic hydrocarbon multiple CAS <26%, Hydrocarbon propellant blend C2H2F4 <70% CAS 74-98-6, 106-97-8) Exposure control listed and limit stated for LPG as TWA 1800 mg/m3. Properties include explosion

	aquariums/ ponds. Turn off electrical appliances, extinguish pilot lights. Do not use as a room spray. Caution keep out of reach of children. Extremely flammable with precautions. Warning against misuse by inhaling etc. First Aid. Poisons information centre. Propellant hydrocarbons ozone safe. Arandee contacts. Panels completed for use vs crawling insects in hard to reach places per extension tube. Includes wall cavities, plumbing entries, behind appliances, vents, fixtures & mixed carpet wood media, sheltered outdoor areas masonry & joints, & commercial strength for manufacturing, processing, hospitality, healthcare and education. I Approved MPI type A animal products including dairy & transitional facility. AsureQuality food beverage dairy & EPA HSRF000276. See www.arandee.co.nz). (MAC Slay Residual Insecticide Fogger sighted & similar. MAC Slay Surface Spray Residual Insecticide sighted similar).	limits not available. Toxicology related to Hazards + asphyxiant narcotic & LD50 oral rat >5000 mg/kg & chronic effects unfound. Ecology listed. Regulatory HSNO HSR203851 & MPI & AsureQuality type A as above).
HACCP aspects other than instructions	Information & prior assessments (Ministry of Primary Industries approved Type A (including dairy) Renewed AsureQuality residual/ spot application. HSNO HSR000276). Food safety (Safety is expected per distancing from food contact, residue and ingredients listings within the column header group above). Ingredient purity (is inferred low risk for non-contact in food areas). Residue carry over (is not calculated w/o spray dosage). QA/ QC (Unrequired for non-contact and formula is contained anhydrous against micro contamination)	Side effects (per instructions & SDS & refer NZIoC & AICS. Production effects not expected per non-contact & raw material food / safety listings) . Efficacy (Is per 5 years use & active levels vs MRLs)
Formulation 100% sum of ingredients with food /safety listings below and carryover uncalculatable w/o dose		
Raw 1 pesticide active	NICNAS AICS secondary notification n/a. EPA NZ HSR number recorded. NZFSA MRLs limited to specific fruit & vegetables MRL 0.5-2 mg/kg. Codex milk MRL 0.1 mg/kg, ADI 0.05 mg/kg. EMEA for EU milk MRL 50 µg/kg valid 2001-2003 cf toxicological ADI 0.01 mg/kg. Australian MRLs 0.05-5 mg/kg fruit & 0.05 mg/kg in milkfat	Purity wanted (per column header). Purity found (could use especially for active but low risk here).
Raw 2 pesticide active	AICS Human health tier 1 & no 2nd notification. EPA NZ NZIoC HSR003317. Limited data but 100% formula had APVMA65880/108/103 sighted. MPI Ag Compound MRLs unfound. Codex MRLs unfound. FSANZ MRLs offal 0.5, eggs 0.5, meat 0.5, milks 0.05, poultry offal/meat 0.5, wheat 2, wheat bran 5 wheat germ 0.5 ppm. NZ EPA CCID main reference Dogs to 1000 mg for 26 weeks The NOEL in this study was 300 mg/kg diet for males and 1000 mg/kg for females (8.24 and 26.77 mg/kg body weight per day for males and females, respectively).	It is extremely toxic to bees. An U.S. Environmental Protection Agency (EPA) study found that 0.07 micrograms was enough to kill honey bees.[2] It is also extremely toxic to aquatic life with a study showing concentrations of 0.03 ppb killing mysid shrimp.[2] It has increased risk of liver cancer in rats and mice in long term exposure.[2] It is capable of killing mosquitoes,[3] although remains poisonous to cats and dogs, with seizures and deaths being reported due to poisoning.[2] Specific data on concentrations or exposure is lacking. Phenothrin has been found to possess antiandrogen properties and was responsible for a small epidemic of gynecomastia via isolated environmental exposure.[4][5] The EPA has not assessed its effect on cancer in humans. However, one study performed by the Mt. Sinai School of Medicine links - with breast cancer; the link made by - effect on increasing the expression of a gene responsible for mammary tissue proliferation.[2] It was with-draw from EPA for application to animal ticks. Purity wanted (per column header including FCC). Purity found (not found or required for non-contact)
Synthetic isoparaffinic hydrocarbon Isopar H Fluid Aliphatic Hydrocarbon CAS 64742-48-9 from Exxon Mobil Corporation 11% Raw 3 paraffin/ naphthenic	NICNAS AICS secondary notification n/a. EPA NZ use under appropriate group standard. FSANZ FS Code 1.31 & 21CFR pure only as direct ingredient & incidental contact lubricant & similar as propellant.	Purity wanted (per column header). Purity found (unfound and may not be critical for incidental contact).
Propane/ butane un-odourised CAS 106-97-8 CAS nos supplied 91052-96-9, 68551-21-3 failed N ICNAS & EPA NZ	NICNAS AICS listed as not assessed. EPA NZ under HSR number. Found in FDA21CFR174.1655 GRAS with GMP for purpose of aerating agent, gas, propellant used variously, OSHA PEL TWA 1000 mg/kg, etc. Flammable gas label flammable gas. Safety central nervous system effects at high concentrations. An asphyxiant flammable gas etc. FSANZ 1.3.3.9 Lubricants - not found. FSANZ 1.3.3 Processing aids also allows food additives in 1.3.3.schedule 2 (Miscellaneous	Purity wanted (per column header). Purity found (unrequired for non-contact).

12 The formulation in confidence follows & is not for public circulation

<p>(Arandee Ltd) MAC Slay Surface Spray / Crack & Crevice Residual Insecticide H3534 16-09- 2020</p>	<p>Registrations column. Scope: checks (Food Standards Australia NZ, NICNAS AICS, US FDA 21 & 40 CFR/ NSF, Food Chemicals Codex, EPA NZ, EU, French culinary listings, WHO or MPI, or related data for equivalent safety). Background (Accord, Animal Products Act, Risk Management Programmes. Detergent & Sanitiser Manufacturer's Code of Practice, Detergent & Sanitiser Standards and Analytical Methods. Quality Manual - Assessment Procedures</p>	<p>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.</p>
<p>Instructions & HACCP - Label.</p>	<p>(Label (Mac Slay Crack & crevice residual insecticide. Kill Insects fast. Actives 20g/kg d-Phenothrin, 20 g/kg permethrin. Invisible odourless barrier penetrates hard to reach areas. Long lasting formulation. All animal products including dairy. 500 ml net. Directions Shake. Hold upright. Fit extension & remove tear tab. Use extension tube to penetrate cracks and crevices & spray with 3 second burst, then re-position. Exit area and remain outside the treated area until spray dried. Precautions: Do not apply to humans, pets, plants or feed. Cover or remove foodstuffs, dishes, utensils & food handling equipment. For ceiling treatment cover surface below with plastic shielding. Keep people and pets out of area during application. Eco-toxic to aquatic life and bees - cover any aquariums/ ponds. Turn off electrical appliances, extinguish pilot lights. Do not use as a room spray. Caution keep out of reach of children. Extremely flammable with precautions. Warning against misuse by inhaling etc. First Aid. Poisons information centre. Propellant hydrocarbons ozone safe. Arandee contacts. Panels completed for use vs crawling insects in hard to reach places per extension tube. Includes wall cavities, plumbing entries, behind appliances, vents, fixtures & mixed carpet wood media, sheltered outdoor areas masonry & joints, & commercial strength for manufacturing, processing, hospitality, healthcare and education. I Approved MPI type A animal products including dairy & transitional facility. AsureQuality food beverage dairy & EPA HSRF000276. See www.arandee.co.nz). (MAC Slay Residual Insecticide Fogger sighted & similar. MAC Slay Surface Spray Residual Insecticide sighted similar).</p>	<p>SDS (MAC Slay Surface Spray Residual Insecticide, MAC Slay Crack & Crevice Residual Insecticide w/trigger, MAV Slay Fogger Residual Insecticide 500 ml 150 g aerosols per Arandee with contacts. Hazards – DG for transport. Danger. Flammable aerosol cat 1, skin sensitisation cat 1, respiratory sensitisation cat 1, specific target organ systemic toxicity repeat exposure cat 2, aquatic toxicity acute cat 1. GHS Hazard statements similarly. Precautions statements. Composition (d-Phenothrin <5%, Permethrin <5%, Isoparaffinic hydrocarbon multiple CAS <26%. Hydrocarbon propellant blend C2H2F4 <70% CAS 74-98-6, 106-97-8) Exposure control listed and limit stated for LPG as TWA 1800 mg/m3. Properties include explosion limits not available. Toxicology related to Hazards + asphyxiant narcotic & LD50 oral rat >5000 mg/kg & chronic effects unfound. Ecology listed. Regulatory HSNO HSR203851 & MPI & AsureQuality type A as above).</p>
<p>HACCP aspects other than instructions</p>	<p>Information & prior assessments (Ministry of Primary Industries approved Type A (including dairy) Renewed AsureQuality residual/ spot application. HSNO HSR000276). Food safety (Safety is expected per distancing from food contact, residue and ingredients listings within the column header group above). Ingredient purity (is inferred low risk for non-contact in food areas). Residue carry over (is not calculated w/o spray dosage). QA/ QC (Unrequired for non-contact and formula is contained anhydrous against micro contamination)</p>	<p>Side effects (per instructions & SDS & refer NZIoC & AICS. Production effects not expected per non-contact & raw material food / safety listings) . Efficacy (Is per 5 years use & active levels vs MRLs)</p>
<p>Formulation 100% sum of ingredients with food /safety listings below and carryover uncalculatable w/o dose</p>		
<p>Permethrin CAS 52645-53-1 EPA NZ HSR003111 from Sumitomo Chemicals 2% Raw 1 pesticide active</p>	<p>NICNAS AICS secondary notification n/a. EPA NZ HSR number recorded. NZFSA MRLs limited to specific fruit & vegetables MRL 0.5-2 mg/kg. Codex milk MRL 0.1 mg/kg, ADI 0.05 mg/kg. EMEA for EU milk MRL 50 µg/kg valid 2001-2003 cf toxicological ADI 0.01 mg/kg. Australian MRLs 0.05-5 mg/kg fruit & 0.05 mg/kg in milkfat</p>	<p>Purity wanted (per column header). Purity found (could use especially for active but low risk here).</p>
<p>d-Phenothrin CAS 26003-80-2 EPA NZ HSR003317 from Sumitomo 2% Raw 2 pesticide active</p>	<p>AICS Human health tier 1 & no 2nd notification. EPA NZ NZIoC HSR003317. Limited data but 100% formula had APVMA65880/108/103 sighted. MPI Ag Compound MRLs unfound. Codex MRLs unfound. FSANZ MRLs offal 0.5, eggs 0.5, meat 0.5, milks 0.05, poultry offal/meat 0.5, wheat 2, wheat bran 5 wheat germ 0.5 ppm. NZ EPA CCID main reference Dogs to 1000 mg for 26 weeks The NOEL in this study was 300 mg/kg diet for males and 1000 mg/kg for females (8.24 and 26.77 mg/kg body weight per day for males and females, respectively).</p>	<p>It is extremely toxic to bees. An U.S. Environmental Protection Agency (EPA) study found that 0.07 micrograms was enough to kill honey bees.[2] It is also extremely toxic to aquatic life with a study showing concentrations of 0.03 ppb killing mysid shrimp.[2] It has increased risk of liver cancer in rats and mice in long term exposure.[2] It is capable of killing mosquitoes,[3] although remains poisonous to cats and dogs, with seizures and deaths being reported due to poisoning.[2] Specific data on concentrations or exposure is lacking. Phenothrin has been found to possess antiandrogen properties and was responsible for a small epidemic of gynecomastia via isolated environmental exposure.[4][5] The EPA has not assessed its effect on cancer in humans. However, one study performed by the Mt. Sinai School of Medicine links - with breast cancer; the link made by - effect on increasing the expression of a gene responsible for mammary tissue proliferation.[2] It was with-draw from EPA for application</p>

		to animal ticks. Purity wanted (per column header including FCC). Purity found (not found or required for non-contact)
Synthetic isoparaffinic hydrocarbon Isopar H Fluid Aliphatic Hydrocarbon CAS 64742-48-9 from Exxon Mobil Corporation 11% Raw 3 paraffin/naphthenic	NICNAS AICS secondary notification n/a. EPA NZ use under appropriate group standard. FSANZ FS Code 1.31 & 21CFR pure only as direct ingredient & incidental contact lubricant & similar as propellant.	Purity wanted (per column header). Purity found (unfound and may not be critical for incidental contact).
Propane/ butane un-odourised CAS 106-97-8 CAS nos supplied 91052-96-9, 68551-21-3 failed N ICNAS & EPA NZ searches, from Aaron Laboratories 85% Raw 4 propellant	NICNAS AICS listed as not assessed. EPA NZ under HSR number. Found in FDA21CFR174.1655 GRAS with GMP for purpose of aerating agent, gas, propellant used variously, OSHA PEL TWA 1000 mg/kg, etc. Flammable gas label flammable gas. Safety central nervous system effects at high concentrations. An asphyxiant flammable gas etc. FSANZ 1.3.3.9 Lubricants - not found. FSANZ 1.3.3 Processing aids also allows food additives in 1.3.3.scheduled 2 (Miscellaneous additives permitted in accordance with GMP in processed foods specified in the schedule...	Purity wanted (per column header). Purity found (unrequired for non-contact).
Sum ingredients 100% checked		
Pesticides MAF download 21/12/05	MRD standard 12 wants high-level requirements: system responsibility documentation & review & refs NZCP6, NZCP16, MQD12, DDM1C, NZCP16, MQD12. For rodenticides DDM1C wants bait rotation.	References NZ MRLs for Ag Compounds Food Standards 2013, Codex MRLs, EPA NZ HSNO Chemicals Register. Food imported from Australia on FSANZ FS Code.
pesticides on www.fsis.usda.gov...	Pest control programmes & treatments should be recorded with details sufficient to document compliance and provide trace-back capability in the event of accidental contaminations. Pesticide registered with EPA must be applied in accordance with the specific instructions for food establishments. Restricted use pesticides should be used only under the control of certified applicators (7USC 136(e)). Dry bait insecticides should be secured in tamper resistant bait stations. Dry bait insecticides, except those with inert ingredients consist mainly of whole or cracked grain, or flour or meal pressed into cakes or pellets that do not have characteristics of food products, should be coloured a distinct blue or green to distinguish the pesticide from edible substances	To minimise the risks of food contamination and personal hazard, pesticides should be applied and stored in a manner such that. Pesticides are not applied during establishment production hours. All containers used to store, dilute, dispense, or transport pesticides are clearly labelled. Re-use of containers for other purposes is prevented by destruction of the container.. unfit for re-use. Specific safeguards are employed to protect food and food contact materials including employee clothing, from direct & indirect contamination from pesticide residues. Treated areas are sufficiently ventilated and equipment, utensils and other food contact surfaces are thoroughly washed after pesticide application.
pesticides on www.fsis.usda.gov...	Residual pesticides should be limited to crack & crevice treatments in food processing areas. Treated cracks and crevices should be sealed with treatment. Pesticidal tracking materials should not be used. Non-pesticidal tracking materials should be a distinct blue or green colour.	
Ingredient sum wanted 100% & got 100.06% ok		
Micro safety per sanitisers	pH growth ranges: B cereus 4.4-9.3, Campylobacter jejuni 4.9-9.0, C botulinum A & B 4.8-8.5 type E 5-8.5, C perfringens 5-8.9, Listeria monocytogenes 4.5-8.0, Salmonella 3.8-9,	Staph aureus 4.3-9.0, vibrio cholerae 6-11, vibrio parahaemolyticus 4.8-9, vibrio vulnificus 5-10, Yersinia enterocolitica 4.4-9.6

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Enderley, Hamilton 3241, P O Box 20474
Hamilton

Dear Sarah Rogers,

Please find attached your assessment report - for any questions or suggestions and the invoice and later the web listing should follow.

MAC Slay Surface Spray / Crack & Crevice Residual Insecticide

- Product description: pesticide, insecticide, residual (Permethrin, D-Phenothrin).
- Product use: for control of insect pests listed in instructions
- Status: cost \$340 + GST + GST for 2 hours. This may include variations on this product. May be mismatch with SDS formula & residual vs type A and let us know any changes

"Passed AsureQuality assessment for food/beverage/dairy factory non-contact per localised/ spot/ crack-crevice application H3534 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 food contact, away from exposed contact surfaces, packaging, & vents e.g. using localised / spot / crack / crevice application with any incidental contact surface residue removed - or used outside the area. Used in conjunction with an approved pest control programme where applicable
- The assessment is subject to notification of change and expires on 16/09/2025.
- The full report is attached for supplier review and verification. The assessment is activated by countersigning & inclusion of assessment precautions / assessment statement / MPI dairy precautions.

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

