

19/04/2022 reference H3449A

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Hamilton

To whom it may concern,

MAC Siliglilide Silicone (non-FG)

- Product type: lubricant (silicone spray)
- Product use: for: food areas, non-food-contact

"Passed AsureQuality assessment for food / beverage / dairy farm & factory with no food contact (direct or incidental) H2." H3449A 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

- Use per instructions, legislation & GMP with no food contact (direct or incidental) H2.
- The assessment is subject to notification of change and expires on 19/04/2027.
- 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 statement & it does not allow use of the word approval or of the AsureQuality logo.

Prepared by Global Proficiency for AsureQuality Ltd by Bob Hutchinson PhD Snr Dev Sci



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:

- Information & prior assessments (Renewed AsureQuality Assessment. APPROVALS MPI approved C12 and C11(all animal products including dairy) • AsureQuality Assessed (approved) H3449 food/ beverage / dairy factories. Silicone USDA/FDA approved H1).
- Food safety ((1) Safety per distancing to non-food-contact, (2) ingredients referenced to food / safety group above, (3) purity of ingredients mostly tabled below, (4) carryover to food nil vs previous 21CFR178.3570 limits).
- QA/ QC (Unrequired for non-contact except freedom from micro contamination is by processing conditions and anhydrous formulation).
- Instructions –
 - Label (MAC SILIGLIDE SPRAY. Silicone. Protects, lubricates, revives & shines. MPI approved C12 (all animal products except dairy). Stops squeaks and sticking, eliminates friction, repels water and prevents freezing. Does not harden or degrade, stable from -50°C to 250°C. Apply to wood, metal, fabric, leather, rubber and plastics, Use on knives, saws, heat sealers, guide rails, conveyors and mountings. APPROVALS MPI approved C12 and C11(all animal products including dairy) • AsureQuality Assessed (approved) H3449 food/ beverage / dairy factories. Silicone USDA/FDA approved H1. Approved HSNO HSR002515. Directions (Adapt method to suit job. Spray the area to be treated, holding the can 30cm away from the surface. CAUTION: KEEP OUT OF REACH OF CHILDREN. EXTREMELY FLAMMABLE: Do not spray on naked flame or any incandescent material. Keep away from sources of ignition - No Smoking. Lists for Storage & Disposal, Warning, First Aid, Poisons Centre phone, Propellant hydrocarbons Ozone safe. Manufacturer).
 - SDS (MAC SILIGLIDE SPRAY Premium Silicone Lubricant AEROSOLS. Arandee Ltd Use(s) - like on label. DANGEROUS GOOD for transport. 2.1.2A 2Y contains gas under pressure; may explode if heated Contains refrigerated gas; may cause cryogenic burns or injury. Hazard 223 Flammable aerosols. Composition (DIMETHYL PHENYLMETHYLPOLYSILOXANE TRIMETHYL TERMINATED [Si(CH₃)₂O]_x[Si(CH₃)(C₆H₅)O]_y <10% 63148-52-7, PROPANE C₃H₈ 30-60% 74-98-6 BUTANE C₄H₁₀ 30-60% 109-97-8. Exposure (controls & limits LIQUIFIED PETROLEUM GAS (LPG) (68476-85-7) ES-STEL: 400 ppm (1800 mg/m³) Properties (list). Toxicology (exposure low, low eye irritant, low to moderate inhalation, low irritant skin, ingestion unlikely). Regulatory (Poison Schedule no number allocated and ingredients on or comply with AICS inventory)
- Side effects (HSNO per instructions & SDS - also NZIoC & AICS. Production effects not expected per raw material food listings).
- Efficacy (Is per food listing & lubrication does not impact food safety & is outside the scope here).

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 (higher post heat treatment)
Severity	Low	Low
Total	Low	Low (higher post heat treatment)

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 (Renewed AsureQuality Assessment. APPROVALS MPI approved C12 and C11(all animal products including dairy) • AsureQuality Assessed (approved) H3449 food/ beverage / dairy factories. Silicone USDA/FDA approved H1).

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) Siliglidle Silicone (non-FG) H3449A 19-04-2022	Registrations column. Scope: checks (Food Standards Australia NZ, NICNAS AICS, EPANZ, NZIoC, 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.
Formulation	Label (MAC SILIGLIDE SPRAY. Silicone. Protects, lubricates, revives & shines. MPI approved C12 (all animal products except dairy). Stops squeaks and sticking, eliminates friction, repels water and prevents freezing. Does not harden or degrade, stable from -50°C to 250°C. Apply to wood, metal, fabric, leather, rubber and plastics, Use on knives, saws, heat sealers, guide rails, conveyors and mountings. APPROVALS MPI approved C12 and C11(all animal products including dairy) • AsureQuality Assessed (approved) H3449 food/ beverage / dairy factories. Silicone USDA/FDA approved H1. Approved HSNO HSR002515. Directions (Adapt method to suit job. Spray the area to be treated, holding the can 30cm away from the surface. CAUTION: KEEP OUT OF REACH OF CHILDREN. EXTREMELY FLAMMABLE: Do not spray on naked flame or any incandescent material. Keep away from sources of ignition - No Smoking. Lists for Storage & Disposal, Warning, First Aid, Poisons Centre phone, Propellant	SDS (MAC SILIGLIDE SPRAY Premium Silicone Lubricant AEROSOLS. Arandee Ltd Use(s) - like on label. DANGEROUS GOOD for transport. 2.1.2A 2Y contains gas under pressure; may explode if heated Contains refrigerated gas; may cause cryogenic burns or injury. Hazard 223 Flammable aerosols. Composition (DIMETHYL PHENYLMETHYLPOLYSILOXANE TRIMETHYL TERMINATED [Si(CH ₃) ₂ O] _x [Si(CH ₃)(C ₆ H ₅)O] _y <10% 63148-52-7, PROPANE C ₃ H ₈ 30-60% 74-98-6 BUTANE C ₄ H ₁₀ 30-60% 109-97-8. Exposure (controls & limits LIQUIFIED PETROLEUM GAS (LPG) (68476-85-7) ES-STEL: 400 ppm (1800 mg/m ³) Properties (list). Toxicology (exposure low, low eye irritant, low to moderate inhalation, low irritant skin, ingestion unlikely). Regulatory (Poison Schedule no number allocated and ingredients on or comply with AICS inventory)

	hydrocarbons Ozone safe. Manufacturer).	
HACCP aspects other than instructions	Information & prior assessments (Renewed AsureQuality Assessment. APPROVALS MPI approved C12 and C11(all animal products including dairy) • AsureQuality Assessed (approved) H3449 food/ beverage / dairy factories. Silicone USDA/FDA approved H1). Food safety ((1) Safety per distancing to non-food-contact, (2) ingredients referenced to food / safety group above, (3) purity of ingredients mostly tabled below, (4) carryover to food nil vs previous 21CFR178.3570 limits). QA/ QC (Unrequired for non-contact except freedom from micro contamination is by processing conditions and anhydrous formulation).	Side effects (HSNO per instructions & SDS - also NZIoC & AICS. Production effects not expected per raw material food listings). Efficacy (Is per food listing & lubrication does not impact food safety & is outside the scope here).
Formulation 100% comprises ingredient listed below		
Raw 1 lubricant silicone	NICNAS AICS returned use with no 2nd notification. NZIoC HSR003036 or 6679 in non-hazardous diluent. FSANZ prohibits for contact substances other than listed (1) 1.3.3.4 permitted antifoam to 10 mg/kg FOUND & (92) 1.3.3.9 permitted lubricant, release agent & anti-stick NOT FOUND. 21CFR 178.3570 Dimethylpolysiloxane (viscosity greater than 300 centistokes). Addition to food not to exceed 1 part per million (& not added to milk).	181.28 110 mg/kg in gelatin, zero tolerance in milk, & as lubricant <1 mg/kg residue, 9CFR318.7, 381.147, - the lubricants are used on food processing equipment as a protective ant-rust film, as a release agent on gaskets or seals of tank closures, and as a lubricant for machine parts and equipment where there is exposure of the lubricated part to food. The amount used is the minimum required to accomplish the desired technical effect on the equipment, and the addition to food of any constituent identified in this section does not exceed the limitations prescribed viz. the addition of silicone to food does not exceed 1 mg/kg. USA uses include defoamer, hog & poultry scald, & release agent. Purity wanted (per column header). Purity found (previously got - for regulated applications - food contact, raw material for medical devices, & pharmacy & properties found listed). .
Raw 2 paraffin/ naphthenic	NICNAS AICS secondary notification n/a. EPA NZ use under appropriate group standard. ECHA. FSANZ FS Code 1.3.1 & 21CFR pure only as direct ingredient & incidental contact lubricant & similar as propellant. ECHA indicates paraffinic (safe)	Purity wanted (per column header). Purity found (previously got isoparaffinic and aliphatic and otherwise unfound and beyond this may not be critical for incidental contact).
Raw 3 propellant gas.	NZIoC HSR001009. AICS human health tier 2 no secondary notification required. FSANZ FS Code (1.3.3 Miscellaneous additives permitted in accordance with GMP in processed foods specified in the schedule & this cross-credits to processing aids). USA FDA (21CFR174.1655 GRAS with GMP for purpose of aerating agent, gas, propellant used variously).	Toxicity (OSHA PEL TWA 1000 ppm, etc. Flammable gas label flammable gas. Safety central nervous system effects at high concentrations. An asphyxiant flammable gas etc). Purity wanted (per column header). Purity found (previously got - specified very light paraffinics & beyond this may not be critical for incidental contact).
Ingredient sum got `100%/100% - agrees)		
Micro safety per anhydrous formula	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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- Food safety ((1) Safety per distancing to non-food-contact, (2) ingredients referenced to food / safety group above, (3) purity of ingredients mostly tabled below, (4) carryover to food nil vs previous 21CFR178.3570 limits).
- **The formulation in confidence follows & is not for public circulation**

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(Arandee Ltd) Siliglidle Silicone (non-FG) H3449A 19-04-2022	Registrations column. Scope: checks (Food Standards Australia NZ, NICNAS AICS, EPANZ, NZIoC, 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.
Formulation	Label (MAC SILIGLIDE SPRAY. Silicone. Protects, lubricates, revives & shines. MPI approved C12 (all animal products except dairy). Stops squeaks and sticking, eliminates friction, repels water and prevents freezing. Does not harden or degrade, stable from -50°C to 250°C. Apply to wood, metal, fabric, leather, rubber and plastics, Use on knives, saws, heat sealers, guide rails, conveyors and mountings. APPROVALS MPI approved C12 and C11(all animal products including dairy) • AsureQuality Assessed (approved) H3449 food/ beverage / dairy factories. Silicone USDA/FDA approved H1. Approved HSNO HSR002515. Directions (Adapt method to suit job. Spray the area to be treated, holding the can 30cm away from the surface. CAUTION: KEEP OUT OF REACH OF CHILDREN. EXTREMELY FLAMMABLE: Do not spray on naked flame or any incandescent material. Keep away from sources of ignition - No Smoking. Lists for Storage & Disposal, Warning, First Aid, Poisons Centre phone, Propellant hydrocarbons Ozone safe. Manufacturer).	SDS (MAC SILIGLIDE SPRAY Premium Silicone Lubricant AEROSOLS. Arandee Ltd Use(s) - like on label. DANGEROUS GOOD for transport. 2.1.2A 2Y contains gas under pressure; may explode if heated Contains refrigerated gas; may cause cryogenic burns or injury. Hazard 223 Flammable aerosols. Composition (DIMETHYL PHENYLMETHYLPOLYSILOXANE TRIMETHYL TERMINATED [Si(CH ₃) ₂ O] _x [Si(CH ₃)(C ₆ H ₅)O] _y <10% 63148-52-7, PROPANE C ₃ H ₈ 30-60% 74-98-6 BUTANE C ₄ H ₁₀ 30-60% 109-97-8. Exposure (controls & limits LIQUIFIED PETROLEUM GAS (LPG) (68476-85-7) ES-STEL: 400 ppm (1800 mg/m ³) Properties (list). Toxicology (exposure low, low eye irritant, low to moderate inhalation, low irritant skin, ingestion unlikely). Regulatory (Poison Schedule no number allocated and ingredients on or comply with AICS inventory)
HACCP aspects other than instructions	Information & prior assessments (Renewed AsureQuality Assessment. APPROVALS MPI approved C12 and C11(all animal products including dairy) • AsureQuality Assessed (approved) H3449 food/ beverage / dairy factories. Silicone USDA/FDA approved H1). Food safety ((1) Safety per distancing to non-food-contact, (2) ingredients referenced to food / safety group above, (3) purity of ingredients mostly tabled below, (4) carryover to food nil vs previous 21CFR178.3570 limits). QA/ QC (Unrequired for non-contact except freedom from micro contamination is by processing conditions and anhydrous formulation).	Side effects (HSNO per instructions & SDS - also NZIoC & AICS. Production effects not expected per raw material food listings). Efficacy (Is per food listing & lubrication does not impact food safety & is outside the scope here).
Formulation 100% comprises ingredient listed below		
Linear polydimethylsiloxane Silicone Fluid 200/350 cSt CAS 63148-62-9 from DKSH 9.9% w/w Raw 1 lubricant silicone	NICNAS AICS returned use with no 2nd notification. NZIoC HSR003036 or 6679 in non-hazardous diluent. FSANZ prohibits for contact substances other than listed (1) 1.3.3.4 permitted antifoam to 10 mg/kg FOUND & (92) 1.3.3.9 permitted lubricant, release agent & anti-stick NOT FOUND. 21CFR 178.3570 Dimethylpolysiloxane (viscosity greater than 300 centistokes). Addition to food not to exceed 1 part per million (& not added to milk).	181.28 110 mg/kg in gelatin, zero tolerance in milk, & as lubricant <1 mg/kg residue, 9CFR318.7, 381.147, - the lubricants are used on food processing equipment as a protective ant-rust film, as a release agent on gaskets or seals of tank closures, and as a lubricant for machine parts and equipment where there is exposure of the lubricated part to food. The amount used is the minimum required to accomplish the desired technical effect on the equipment, and the addition to food of any constituent identified in this section does not exceed the limitations prescribed viz. the addition of silicone to food does not exceed 1 mg/kg. USA uses include defoamer, hog & poultry scald, & release agent. Purity wanted (per column header). Purity found (previously got - for regulated applications - food contact, raw material for medical devices, & pharmacy & properties found listed). .
Solvent H Isoparaffinic hydrocarbon CAS 64742-48-9 from DKSH x3.3% w/w Raw 2 paraffin/ naphthenic	NICNAS AICS secondary notification n/a. EPA NZ use under appropriate group standard. ECHA. FSANZ FS Code 1.3.1 & 21CFR pure only as direct ingredient & incidental contact lubricant & similar as propellant. ECHA indicates paraffinic (safe)	Purity wanted (per column header). Purity found (previously got isoparaffinic and aliphatic and otherwise unfound and beyond this may not be critical for incidental contact).
Propellant Propane/ butane CAS 91052-98-9, 68551-21-3 from Rockgas NZ Ltd. 86.8% w/w Raw 3 propellant gas.	NZIoC HSR001009. AICS human health tier 2 no secondary notification required. FSANZ FS Code (1.3.3 Miscellaneous additives permitted in accordance with GMP in processed foods specified in the schedule & this cross-credits to processing aids). USA FDA (21CFR174.1655 GRAS with GMP for purpose of aerating agent, gas, propellant used variously).	Toxicity (OSHA PEL TWA 1000 ppm, etc. Flammable gas label flammable gas. Safety central nervous system effects at high concentrations. An asphyxiant flammable gas etc). Purity wanted (per column header). Purity found (previously got - specified very light paraffinics & beyond this may not be critical for incidental contact).
Ingredient sum got `100%/100% - agrees)		
Micro safety per anhydrous formula	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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Rockfield Rd, Penrose Auckland. 09 579 5139, fax -.
Contact Sarah Rodgers sarah@arandee.co.nz

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Tullamarine Vic 3043, Australia +61 3 9089
1151

Global Proficiency Ltd for AsureQuality Ltd,
Ruakura Research Centre, 10 Bisley Road,
Enderley, Hamilton 3241, P O Box 20474
Hamilton

Dear Sarah,

Please find attached your assessment report to please let us know any questions or suggestions and the invoice and web listing should follow.

Just a heads up that this AQ service is under review for major change pending discussion with MPI. I do not know more than that including timing - but it may use direct access through to MPI and possibly static AQ website for 5 years (?). Thanks for this.

MAC Siliglide Silicone (non-FG)

- Product type: lubricant (silicone spray)
- Product use: for: food areas, non-food-contact
- Status: passed AsureQuality farm & factory assessment renewed cost \$184.16 + GST for 1:05 hours.

"Passed AsureQuality assessment for food / beverage / dairy farm & factory with no food contact (direct or incidental) H2." H3449A 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).

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- Use per instructions, legislation & GMP with no food contact (direct or incidental) H2.
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Prepared by Global Proficiency for AsureQuality Ltd by Bob Hutchinson PhD Snr Dev Sci 