000939 VANILLA FLAVOUR

The Product Makers (Australia) Pty Ltd

Chemwatch Hazard Alert Code: **4**

Version No: **3.3**
Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Issue Date: **19/10/2022**
Print Date: **19/10/2022**
S.GHS.AUS.EN

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name: 000939 VANILLA FLAVOUR
Other means of identification: Not Available

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

Relevant identified uses:

INTEGRITY CHECK: Product contains BOTH an alcohol and an acid as ingredients.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	The Product Makers (Australia) Pty Ltd	The Product Makers (Australia) Pty Ltd
Address	50 - 60 Popes Road Keysborough 3173 Australia	50 - 60 Popes Road Keysborough 3173 Australia
Telephone	61 3 9771 0300	61 3 9771 0300
Fax	61 3 9771 0301	61 3 9771 0301
Website	www.theproductmakers.com	www.theproductmakers.com
Email	Not Available	Not Available

Emergency telephone number

Association / Organisation	The Product Makers (Australia) Pty Ltd	The Product Makers (Australia) Pty Ltd
Emergency telephone numbers	61 3 9771 0300	61 3 9771 0300
Other emergency telephone numbers	Not Available	Not Available

SECTION 2 Hazards identification

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Chemwatch Hazard Ratings

Flammability	0
Toxicity	1
Body Contact	2
Reactivity	0
Chronic	4

0 = Minimum
1 = Low
2 = Moderate
3 = High
4 = Extreme

Poisons Schedule	Not Applicable
Classification [1]	Serious Eye Damage/Eye Irritation Category 2A, Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1
Legend:	*1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI*

Label elements

Hazard pictogram(s)

Signal word: Warning

Hazard statement(s)

H319: Causes serious eye irritation.

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H315: Causes skin irritation.
H317: May cause an allergic skin reaction.

Precautionary statement(s) Prevention

P280: Wear protective gloves, protective clothing, eye protection and face protection.
P261: Avoid breathing mist/vapours/spray.
P264: Wash all exposed external body areas thoroughly after handling.
P272: Contaminated work clothing should not be allowed out of the workplace.

Precautionary statement(s) Response

P302+P352: IF ON SKIN: Wash with plenty of water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501: Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
121-33-5	1-10	vanillin
57-55-6	30-60	propylene glycol
107-92-6	<1	butyric acid

Legend: *1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L; * EU IOELVs available*

SECTION 4 First aid measures

Description of first aid measures

Eye Contact

If this product comes in contact with the eyes:
– Wash out immediately with fresh running water.
– Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
– Seek medical attention without delay; if pain persists or recurs seek medical attention.
– Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact

If skin contact occurs:
– Immediately remove all contaminated clothing, including footwear.
– Flush skin and hair with running water (and soap if available).
– Seek medical attention in event of irritation.

Inhalation

– If fumes, aerosols or combustion products are inhaled remove from contaminated area.
– Other measures are usually unnecessary.

Ingestion

– Immediately give a glass of water.
– First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

– Polyethylene glycols are generally poorly absorbed orally and are mostly unchanged by the kidney.
– Dermal absorption can occur across damaged skin (e.g. through burns) leading to increased osmolality, anion gap metabolic acidosis, elevated calcium, low ionised calcium, CNS depression and renal failure.
– Treatment consists of supportive care.
[Ellenhorn and Barceloux: Medical Toxicology]

Propylene glycol is primarily a CNS depressant in large doses and may cause hypoglycaemia, lactic acidosis and seizures.
– The usual measures are supportive care and decontamination (Ipecac/ lavage/ activated charcoal/ cathartics), within 2 hours of exposure should suffice.
– Check the anion gap, arterial pH, renal function and glucose levels.

Ellenhorn and Barceloux: Medical Toxicology

SECTION 5 Firefighting measures

Extinguishing media

Continued...

– Alcohol stable foam.

Special hazards arising from the substrate or mixture

Fire Incompatibility

– Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Advice for firefighters

Fire Fighting

– Alert Fire Brigade and tell them location and nature of hazard.

Fire/Explosion Hazard

– Combustible.
Combustion products include:
carbon dioxide (CO_2)
other pyrolysis products typical of burning organic material.
May emit poisonous fumes.
May emit corrosive fumes.

HAZCHEM

Not Applicable

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills

– Remove all ignition sources.

Major Spills

Moderate hazard.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling

– Avoid all personal contact, including inhalation.
– **DO NOT** allow clothing wet with material to stay in contact with skin

Other information

Store tightly closed under cool, dry conditions in anapproved storage area. Avoid exposure to light.
Shelf Life: 12 months according to the specified storage conditions
– Store in original containers.

Conditions for safe storage, including any incompatibilities

Suitable container

– Metal can or drum
– Packaging as recommended by manufacturer.

Storage incompatibility

– Glycols and their ethers undergo violent decomposition in contact with 70% perchloric acid.
Alcohols
– are incompatible with strong acids, acid chlorides, acid anhydrides, oxidising and reducing agents.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	propylene glycol	Propane-1,2-diol: particulates only	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	propylene glycol	Propane-1,2-diol total: (vapour & particulates)	150 ppm / 474 mg/m3	Not Available	Not Available	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
vanillin	E	≤ 0.01 mg/m³

Continued...

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
Notes:	*Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.*	

Exposure controls

Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.

Personal protection

Eye and face protection

– Safety glasses with side shields.

Skin protection

See Hand protection below

Hands/feet protection

– Wear chemical protective gloves, e.g. PVC.

NOTE:

– The material may produce skin sensitisation in predisposed individuals.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer.

Body protection

See Other protection below

Other protection

– Overalls.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance

:

Clear colourless to pale yellow liquid

Physical state	Liquid	**Relative density (Water = 1)**	1.04
Odour	Characteristic	**Partition coefficient n-octanol / water**	Not Available
Odour threshold	Characteristic of Vanilla	**Auto-ignition temperature (°C)**	Not Available
pH (as supplied)	Not Available	**Decomposition temperature (°C)**	Not Available
Melting point / freezing point (°C)	Not Available	**Viscosity (cSt)**	Not Available
Initial boiling point and boiling range (°C)	Not Available	**Molecular weight (g/mol)**	Not Available
Flash point (°C)	> 100	**Taste**	Not Available
Evaporation rate	Not Available BuAC = 1	**Explosive properties**	Not Available
Flammability	Not Applicable	**Oxidising properties**	Not Available
Refractive Index	1.405	**Surface Tension (dyn/cm or mN/m)**	Not Available
Lower Explosive Limit (%)	Not Available	**Volatile Component (%vol)**	Not Available
Vapour pressure (kPa)	Not Available	**Gas group**	Not Available
Solubility in water	Not Available	**pH as a solution (Not Available%)**	Not Available
Vapour density (Air = 1)	Not Available	**VOC g/L**	Not Available

SECTION 10 Stability and reactivity

Reactivity:

See section 7

Chemical stability:

– Unstable in the presence of incompatible materials.

Possibility of hazardous reactions:

Continued...

See section 7

Conditions to avoid:

See section 7

Incompatible materials:

See section 7

Hazardous decomposition products:

See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled

The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models).
Inhalation of vapours may cause drowsiness and dizziness.
Aliphatic alcohols with more than 3-carbons cause headache, dizziness, drowsiness, muscle weakness and delirium, central depression, coma, seizures and behavioural changes.
Inhalation hazard is increased at higher temperatures.
Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.

Ingestion

Ingestion of propylene glycol produced reversible central nervous system depression in humans following ingestion of 60 ml.
If swallowed, the toxic effects of glycols (dihydric alcohols) are similar to those of alcohol, with depression of the central nervous system, nausea, vomiting, and degenerative changes in the liver and kidney.
Overexposure to non-ring alcohols causes nervous system symptoms.
The material has **NOT** been classified by EC Directives or other classification systems as 'harmful by ingestion'.

Skin Contact

The material may accentuate any pre-existing dermatitis condition
Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.
A single prolonged exposure is not likely to result in the material causing harm.
Most liquid alcohols appear to act as primary skin irritants in humans.
Open cuts, abraded or irritated skin should not be exposed to this material
Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.
The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time.

Eye

Irritation of the eyes may produce a heavy secretion of tears (lachrymation).
Limited evidence or practical experience suggests, that the material may cause eye irritation in a substantial number of individuals.

Chronic

Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.
Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
This material can cause serious damage if one is exposed to it for long periods.
Propylene glycol is thought to be sensitizing following the regular use of topical creams by eczema patients.

000939 VANILLA FLAVOUR	**TOXICITY** / **IRRITATION** Not Available / Not Available
vanillin	**TOXICITY** / **IRRITATION** dermal (rat) LD50: >2000 mg/kg[1] / Not Available Inhalation(Rat) LC50; >0.042 mg/L4h[1] / Oral (Guinea) LD50; 1400 mg/kg[2] /
propylene glycol	**TOXICITY** / **IRRITATION** Dermal (rabbit) LD50: 11890 mg/kg[2] / Eye (rabbit): 100 mg - mild Inhalation(Rat) LC50; >44.9 mg/L4h[2] / Eye (rabbit): 500 mg/24h - mild Oral (Rat) LD50; 20000 mg/kg[2] / Eye: no adverse effect observed (not irritating)[1] / Skin(human):104 mg/3d Intermit Mod / Skin(human):500 mg/7days mild / Skin: no adverse effect observed (not irritating)[1]
butyric acid	**TOXICITY** / **IRRITATION** dermal (rat) LD50: 530 mg/kg[2] / Eye (rabbit):0.250 mg(open)-SEVERE Oral (Rat) LD50; 2000 mg/kg[2] / Eye: adverse effect observed (irritating)[1] / Skin (rabbit): 20mg/24h - moderate / Skin: adverse effect observed (corrosive)[1]

Continued...

Legend: *1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances*

VANILLIN

Miosis, somnolence, muscle weakness, coma, respiratory stimulation, maternal effects involving ovaries, fallopian tubes, uterus, cervix and vagina recorded.
For certain benzyl derivatives:
The members of this group are rapidly absorbed through the gastrointestinal tract, metabolised primarily in the liver, and excreted primarily in the urine either unchanged or as conjugates of benzoic acid derivatives.
For vanillin:
Vanillin generally does not cause irritation or sensitisation of the skin but sometimes does cause inflammation.
A member or analogue of a group of hydroxy and alkoxy-substituted benzyl derivatives generally regarded as safe (GRAS) based in part on their self-limiting properties as flavouring substances in food; their rapid absorption.

PROPYLENE GLYCOL

The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.

BUTYRIC ACID

The substance has been investigated as a mutagen.
Inhibition of several HDACs simultaneously confers greater toxicity and long term side effects.
For acid mists, aerosols, vapours
Test results suggest that eukaryotic cells are susceptible to genetic damage when the pH falls to about 6.5.
The material may produce severe irritation to the eye causing pronounced inflammation.
The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.
Asthma-like symptoms may continue for months or even years after exposure to the material ends.

000939 VANILLA FLAVOUR & VANILLIN

The following information refers to contact allergens as a group and may not be specific to this product.
Adverse reactions to fragrances in perfumes and fragranced cosmetic products include allergic contact dermatitis, irritant contact dermatitis, sensitivity to light, immediate contact reactions, and pigmented contact dermatitis.
Fragrance allergens act as haptens, low molecular weight chemicals that cause an immune response only when attached to a carrier protein.

000939 VANILLA FLAVOUR & PROPYLENE GLYCOL

The acute oral toxicity of propylene glycol is very low; large amounts are needed to cause perceptible health damage in humans.

Acute Toxicity	✗	**Carcinogenicity**	✗
Skin Irritation/Corrosion	✓	**Reproductivity**	✗
Serious Eye Damage/Irritation	✓	**STOT - Single Exposure**	✗
Respiratory or Skin sensitisation	✓	**STOT - Repeated Exposure**	✗
Mutagenicity	✗	**Aspiration Hazard**	✗

Legend: ✗ *– Data either not available or does not fill the criteria for classification*
✓ *– Data available to make classification*

SECTION 12 Ecological information

Toxicity

000939 VANILLA FLAVOUR

Endpoint	Test Duration (hr)	Species	Value	Source
Not Available	Not Available	Not Available	Not Available	Not Available

vanillin

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	72h	Algae or other aquatic plants	120mg/l	2
EC50	48h	Crustacea	36.79mg/l	2
NOEC(ECx)	72h	Algae or other aquatic plants	>2mg/l	1
LC50	96h	Fish	57mg/l	2

propylene glycol

Endpoint	Test Duration (hr)	Species	Value	Source
NOEC(ECx)	336h	Algae or other aquatic plants	<5300mg/l	1
EC50	72h	Algae or other aquatic plants	19300mg/l	2
EC50	48h	Crustacea	>114.4mg/L	4
LC50	96h	Fish	>10000mg/l	2
EC50	96h	Algae or other aquatic plants	19000mg/l	2

butyric acid

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	72h	Algae or other aquatic plants	44.7mg/l	2
EC50	48h	Crustacea	51.25mg/l	2
EC0(ECx)	24h	Crustacea	8mg/l	1
LC50	96h	Fish	66.4mg/l	2

Legend: *Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data*

Propylene glycol is known to exert high levels of biochemical oxygen demand (BOD) during degradation in surface waters.

Continued...

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
vanillin	LOW	LOW
propylene glycol	LOW	LOW
butyric acid	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
vanillin	LOW (LogKOW = 1.21)
propylene glycol	LOW (BCF = 1)
butyric acid	LOW (LogKOW = 0.79)

Mobility in soil

Ingredient	Mobility
vanillin	LOW (KOC = 38.45)
propylene glycol	HIGH (KOC = 1)
butyric acid	MEDIUM (KOC = 2.214)

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

– Containers may still present a chemical hazard/ danger when empty.
Legislation addressing waste disposal requirements may differ by country, state and/ or territory.
– **DO NOT** allow wash water from cleaning or process equipment to enter drains.
– Recycle wherever possible or consult manufacturer for recycling options.

SECTION 14 Transport information

Labels Required

Marine Pollutant

NO

HAZCHEM

Not Applicable

	Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS	Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS	Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
UN number: **Not Applicable**			
UN proper shipping name: **Not Applicable**			
Transport hazard class(es): **Not Applicable**			
Subrisk: **Not Applicable**			
Packing group: **Not Applicable**			

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
vanillin	Not Available
propylene glycol	Not Available
butyric acid	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
vanillin	Not Available
propylene glycol	Not Available
butyric acid	Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

Continued...

vanillin is found on the following regulatory lists

– Australian Inventory of Industrial Chemicals (AIIC)

propylene glycol is found on the following regulatory lists

– Australian Inventory of Industrial Chemicals (AIIC)

butyric acid is found on the following regulatory lists

– Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
– Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6
– Australian Inventory of Industrial Chemicals (AIIC)

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (vanillin; propylene glycol; butyric acid)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	*Yes = All CAS declared ingredients are on the inventory* *No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.*

SECTION 16 Other information

Revision Date: 19/10/2022
Initial Date: 22/05/2017

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.
The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

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end of SDS