Safety Data Sheet
according to WHS Regulations

Date of issue: 28.08.2025 *Version number 1* *Revision: 28.08.2025*

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

· ***Other means of identification***

· ***Trade name:*** ***MACADAMIA NATURAL FLAVOUR***

· ***Article number:*** AMM2426
· ***Relevant identified uses of the substance or mixture and uses advised against***
· ***Sector of Use*** SU4 Manufacture of food products
· ***Application of the substance / the mixture*** Flavouring agents

· ***Details of the supplier of the safety data sheet***
· ***Manufacturer/Supplier:***
Metarom Australia
117 Stephen Rd
Banksmeadow NSW 2019
Australia
+61 2 9317 5002

· ***Further information obtainable from:*** info@metarom.com.au
· ***Emergency telephone number:***
Poison Information Centre NSW Australia 13 11 26
National Poisons Centre New Zealand 0800 764 766

2 Hazard(s) Identification

· ***Classification of the substance or mixture***

GHS07

Skin sensitisation – Category 1 H317 May cause an allergic skin reaction.

· ***Label elements***
· ***GHS label elements*** The product is classified and labelled according to the Globally Harmonised System (GHS).
· ***Hazard pictograms***

GHS07

· ***Signal word*** Warning

· ***Hazard-determining components of labelling:***
vanillin (≥1-≤2.5 %)
· ***Hazard statements***
H317 May cause an allergic skin reaction.
· ***Precautionary statements***
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves.
P362+P364 Take off contaminated clothing and wash it before reuse.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P321 Specific treatment (see on this label).
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
· ***Other hazards***
· ***Results of PBT and vPvB assessment***
· ***PBT:*** Not applicable.
· ***vPvB:*** Not applicable.

3 Composition and Information on Ingredients

· ***Chemical characterisation: Mixtures***
· ***Description:*** Mixture of substances listed below with nonhazardous additions.

· ***Dangerous components:***

57-55-6	Propylene glycol	50-100%

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121-33-5	vanillin Acute toxicity - oral – Category 4, H302; Eye damage/irritation – Category 2A, H319; Skin sensitisation – Category 1, H317	≥1-≤2.5%
98-01-1	FURFURAL Acute toxicity - oral – Category 3, H301; Acute toxicity - dermal – Category 3, H311; Acute toxicity - inhalation – Category 2, H330; Carcinogenicity – Category 2, H351; Skin corrosion/ irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319; Specific target organ toxicity (single exposure) – Category 3, H335; Flammable liquids – Category 4, H227	<1%
14667-55-1	2,3,5-trimethylpyrazine Flammable liquids – Category 3, H226; Acute toxicity - oral – Category 3, H301	≤2.5%

· ***Additional information:*** For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

· ***General information:*** Immediately remove any clothing soiled by the product.
· ***After inhalation:***
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· ***After skin contact:*** Immediately wash with water and soap and rinse thoroughly.
· ***After eye contact:*** Rinse opened eye for several minutes under running water.
· ***After swallowing:*** If symptoms persist consult doctor.
· ***Information for doctor:***
· ***Most important symptoms and effects, both acute and delayed*** No further relevant information available.
· ***Indication of any immediate medical attention and special treatment needed*** No further relevant information available.

5 Fire Fighting Measures

· ***Suitable extinguishing agents:*** Use fire extinguishing methods suitable to surrounding conditions.
· ***Special hazards arising from the substance or mixture*** No further relevant information available.
· ***Protective equipment:*** No special measures required.

6 Accidental Release Measures

· ***Personal precautions, protective equipment and emergency procedures*** Not required.
· ***Environmental precautions:***
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
· ***Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· ***Reference to other sections***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and Storage

· ***Handling:***
· ***Precautions for safe handling***
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· ***Information about fire - and explosion protection:*** No special measures required.
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:*** No special requirements.
· ***Information about storage in one common storage facility:*** Not required.
· ***Further information about storage conditions:*** None.
· ***Specific end use(s)*** No further relevant information available.

8 Exposure controls and personal protection

· ***Appropriate engineering controls*** No further data; see section 7.

· ***Ingredients with limit values that require monitoring at the workplace:***	
57-55-6 Propylene glycol	
WES	Long-term value: 474* 10** mg/m³, 150* ppm *vapour&particluates;**particulates only

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98-01-1 FURFURAL	
WES	Long-term value: 7.9 mg/m³, 2 ppm Sk

· ***Additional information:*** The lists valid during the making were used as basis.
· ***Personal protective equipment:***
· ***General protective and hygienic measures:***
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
· ***Respiratory protection:***
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
· ***Protection of hands:***

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· ***Material of gloves***
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· ***Penetration time of glove material***
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· ***Eye protection:*** Goggles recommended during refilling

9 Physical and Chemical Properties

· ***General Information***	
· ***Appearance:***	
· ***Form:***	Fluid
· ***Colour:***	Yellow
· ***Odour:***	Characteristic
· ***Odour threshold:***	Not determined.
· ***pH-value:***	Not determined.
· ***Change in condition***	
· ***Melting point/freezing point:***	Undetermined.
· ***Initial boiling point and boiling range:***	184 °C
· ***Flash point:***	104 °C
· ***Flammability***	Not applicable.
· ***Auto-ignition temperature:***	371 °C
· ***Decomposition temperature:***	Not determined.
· ***Ignition temperature:***	Product is not selfigniting.
· ***Explosive properties:***	Product does not present an explosion hazard.
· ***Explosion limits:***	
· ***Lower:***	2.6 Vol %
· ***Upper:***	12.6 Vol %
· ***Vapour pressure at 20 °C:***	0.11 hPa
· ***Density at 20 °C:***	1.03 g/cm³
· ***Relative density***	Not determined.
· ***Vapour density***	Not determined.
· ***Evaporation rate***	Not determined.
· ***Solubility in / Miscibility with***	
· ***water:***	Fully miscible.
· ***Partition coefficient: n-octanol/water:***	Not determined.
· ***Viscosity:***	
· ***Dynamic at 20 °C:***	46 mPas
· ***Kinematic:***	Not determined.
· ***Solvent content:***	
· ***Organic solvents:***	96.3 %
· ***Solids content:***	0.0 %
· ***Other information***	
· ***Particle characteristics***	Not applicable.
· ***Physical state***	Liquid

10 Stability and Reactivity

· ***Reactivity*** No further relevant information available.

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· ***Thermal decomposition / conditions to be avoided:*** No decomposition if used according to specifications.
· ***Possibility of hazardous reactions*** No dangerous reactions known.
· ***Conditions to avoid*** No further relevant information available.
· ***Incompatible materials:*** No further relevant information available.
· ***Hazardous decomposition products:*** No dangerous decomposition products known.

11 Toxicological Information

· ***Information on toxicological effects***
· ***Acute toxicity*** Based on available data, the classification criteria are not met.

· ***LD/LC50 values relevant for classification:***		
57-55-6 Propylene glycol		
Oral	LD50	2,000 mg/kg (rat)
Dermal	LD50	20,800 mg/kg (rabbit)

· ***Primary irritant effect:***
· ***Skin corrosion/irritation*** Based on available data, the classification criteria are not met.
· ***Serious eye damage/irritation*** Based on available data, the classification criteria are not met.
· ***Respiratory or skin sensitisation*** May cause an allergic skin reaction.
· ***Germ cell mutagenicity*** Based on available data, the classification criteria are not met.
· ***Carcinogenicity*** Based on available data, the classification criteria are not met.
· ***Reproductive toxicity*** Based on available data, the classification criteria are not met.
· ***STOT-single exposure*** Based on available data, the classification criteria are not met.
· ***STOT-repeated exposure*** Based on available data, the classification criteria are not met.
· ***Aspiration hazard*** Based on available data, the classification criteria are not met.

12 Ecological Information

· ***Toxicity***
· ***Aquatic toxicity:*** No further relevant information available.
· ***Persistence and degradability*** No further relevant information available.
· ***Behaviour in environmental systems:***
· ***Bioaccumulative potential*** No further relevant information available.
· ***Mobility in soil*** No further relevant information available.
· ***Additional ecological information:***
· ***General notes:***
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
· ***Results of PBT and vPvB assessment***
· ***PBT:*** Not applicable.
· ***vPvB:*** Not applicable.
· ***Other adverse effects*** No further relevant information available.

13 Disposal considerations

· ***Waste treatment methods***
· ***Recommendation*** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· ***Uncleaned packaging:***
· ***Recommendation:*** Disposal must be made according to official regulations.
· ***Recommended cleansing agents:*** Water, if necessary together with cleansing agents.

14 Transport information

· ***UN-Number***	
· ***ADG, IMDG, IATA***	Void
· ***UN proper shipping name***	
· ***ADG, IMDG, IATA***	Void
· ***Transport hazard class(es)***	
· ***ADG, ADN, IMDG, IATA***	
· ***Class***	Void
· ***Packing group***	
· ***ADG, IMDG, IATA***	Void
· ***Environmental hazards:***	Not applicable.
· ***Special precautions for user***	Not applicable.

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· ***Transport in bulk according to Annex II of Marpol and the IBC Code***	Not applicable.
· ***UN "Model Regulation":***	Void

15 Regulatory information

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

· ***Australian Inventory of Industrial Chemicals***

57-55-6	Propylene glycol
121-33-5	vanillin
100-52-7	benzaldehyde
98-01-1	FURFURAL
513-86-0	acetoin
14667-55-1	2,3,5-trimethylpyrazine
64-19-7	acetic acid
140-11-4	Benzyl acetate
108-50-9	2,6-dimethylpyrazine
112-80-1	oleic acid, pure
	ORANGE TERPENES / D-LIMONENE (NATUREL)
110-38-3	ethyl decanoate
106-33-2	ethyl laurate
25152-84-5	trans,trans-2,4-decadien-1-al

· ***Standard for the Uniform Scheduling of Medicines and Poisons***

98-01-1	FURFURAL	S6
64-19-7	acetic acid	S2, S5, S6

· ***Australia: Priority Existing Chemicals***

None of the ingredients is listed.

· ***GHS label elements*** The product is classified and labelled according to the Globally Harmonised System (GHS).

· ***Hazard pictograms***

GHS07

· ***Signal word*** Warning

· ***Hazard-determining components of labelling:***
vanillin (≥1-≤2.5 %)

· ***Hazard statements***
H317 May cause an allergic skin reaction.

· ***Precautionary statements***
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves.
P362+P364 Take off contaminated clothing and wash it before reuse.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P321 Specific treatment (see on this label).
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· ***Directive 2012/18/EU***

· ***Named dangerous substances - ANNEX I*** None of the ingredients is listed.

· ***Chemical safety assessment:*** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· ***Relevant phrases***
H226 Flammable liquid and vapour.
H227 Combustible liquid.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H315 Causes skin irritation.

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H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.

· ***Department issuing SDS:*** Regulation and technical service
· ***Contact:***
· ***Abbreviations and acronyms:***
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flammable liquids – Category 3: Flammable liquids – Category 3
Flammable liquids – Category 4: Flammable liquids – Category 4
Acute toxicity - oral – Category 3: Acute toxicity – Category 3
Acute toxicity - oral – Category 4: Acute toxicity – Category 4
Acute toxicity - inhalation – Category 2: Acute toxicity – Category 2
Skin corrosion/irritation – Category 2: Skin corrosion/irritation – Category 2
Eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A
Skin sensitisation – Category 1: Skin sensitisation – Category 1
Carcinogenicity – Category 2: Carcinogenicity – Category 2
Specific target organ toxicity (single exposure) – Category 3: Specific target organ toxicity (single exposure) – Category 3