Safety Data Sheet
according to WHS Regulations

Printing date 31.01.2022 *Version number 1* *Revision: 31.01.2022*

Hazardous according to criteria of Australian Safety and Compensation Council.

*
1 Identification

· ***Product identifier***

· ***Trade name:*** ***MANGO NATURAL FLAVOR 63%vol***

· ***Article number:*** AAM9002
· ***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
4/20-28 Ricketty Street
Mascot NSW 2020
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

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2 Hazard(s) Identification

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

flame

Flam. Liq. 3 H226 Flammable liquid and vapour.

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

GHS02

· ***Signal word*** Warning
· ***Hazard statements***
H226 Flammable liquid and vapour.
· ***Precautionary statements***

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.
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.

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3 Composition and Information on Ingredients

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

· ***Dangerous components:***

64-17-5	ethanol Flam. Liq. 2, H225	50-100%
3658-77-3	4-Hydroxy-2,5-dimethyl-3(2H)-furanone Acute Tox. 3, H301; Skin Corr. 1, H314; Skin Sens. 1, H317	≥0.1-<1%
123-35-3	7-methyl-3-methylene-1,6-octadiene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	≥0.1-<0.25%
107-92-6	butyric acid Acute Tox. 3, H311; Skin Corr. 1, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Flam. Liq. 4, H227	<1%

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

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4 First Aid Measures

· ***Description of first aid measures***
· ***General information:*** Immediately remove any clothing soiled by the product.
· ***After inhalation:*** Supply fresh air; consult doctor in case of complaints.
· ***After skin contact:*** Immediately rinse with water.
· ***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.

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5 Fire Fighting Measures

· ***Extinguishing media***
· ***Suitable extinguishing agents:*** CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· ***Special hazards arising from the substance or mixture*** No further relevant information available.
· ***Advice for firefighters***
· ***Protective equipment:*** No special measures required.

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6 Accidental Release Measures

· ***Personal precautions, protective equipment and emergency procedures***
Wear protective equipment. Keep unprotected persons away.
· ***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 item 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*** No special precautions are necessary if used correctly.
· ***Information about fire - and explosion protection:***
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· ***Conditions for safe storage, including any incompatibilities***
· ***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:*** Keep container tightly sealed.
· ***Specific end use(s)*** No further relevant information available.

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8 Exposure controls and personal protection

· ***Additional information about design of technical facilities:*** No further data; see item 7.

· ***Control parameters***

· ***Ingredients with limit values that require monitoring at the workplace:***	
64-17-5 ethanol	
WES	Long-term value: 1880 mg/m³, 1000 ppm

· ***Additional information:*** The lists valid during the making were used as basis.

· ***Exposure controls***
· ***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:*** Not required.

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· ***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:***

Tightly sealed goggles

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9 Physical and Chemical Properties

· ***Information on basic physical and chemical properties***	
· ***General Information***	
· ***Appearance:***	
Form:	Fluid
Colour:	Colourless
· ***Odour:***	Characteristic
· ***Odour threshold:***	Not determined.
· ***pH-value:***	Not determined.
· ***Change in condition***	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	78 °C
· ***Flash point:***	23 °C
· ***Flammability (solid, gas):***	Not applicable.
· ***Ignition temperature:***	425 °C
· ***Decomposition temperature:***	Not determined.
· ***Auto-ignition temperature:***	Product is not selfigniting.
· ***Explosive properties:***	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· ***Explosion limits:***	
Lower:	3.5 Vol %
Upper:	15 Vol %
· ***Vapour pressure at 20 °C:***	59 hPa
· ***Density at 20 °C:***	0.864 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:	Not determined.
Kinematic:	Not determined.
· ***Solvent content:***	
Organic solvents:	62.4 %
Solids content:	0.0 %
· ***Other information***	No further relevant information available.

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10 Stability and Reactivity

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

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11 Toxicological Information

· ***Information on toxicological effects***
· ***Acute toxicity***
· ***Primary irritant effect:***
· ***Skin corrosion/irritation*** No irritant effect.
· ***Serious eye damage/irritation*** No irritating effect.
· ***Respiratory or skin sensitisation*** No sensitising effects known.

*
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 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· ***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.

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14 Transport information

· ***UN-Number***	
· ***ADG, IMDG, IATA***	UN1197
· ***UN proper shipping name***	
· ***ADG***	1197 EXTRACTS, FLAVOURING, LIQUID
· ***IMDG, IATA***	EXTRACTS, FLAVOURING, LIQUID
· ***Transport hazard class(es)***	
· ***ADG***	
· ***Class***	3 (F1) Flammable liquids.
· ***Label***	3
· ***IMDG, IATA***	
· ***Class***	3 Flammable liquids.

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· ***Label***	3
· ***Packing group***	
· ***ADG, IMDG, IATA***	III
· ***Environmental hazards:***	Not applicable.
· ***Special precautions for user***	Warning: Flammable liquids.
· ***Hazard identification number (Kemler code):***	30
· ***EMS Number:***	F-E,S-D
· ***Stowage Category***	A
· ***Transport in bulk according to Annex II of Marpol and the IBC Code***	Not applicable.
· ***Transport/Additional information:***	
· ***ADG***	
· ***Limited quantities (LQ)***	5L
· ***Excepted quantities (EQ)***	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· ***Transport category***	3
· ***Tunnel restriction code***	D/E
· ***IMDG***	
· ***Limited quantities (LQ)***	5L
· ***Excepted quantities (EQ)***	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· ***UN "Model Regulation":***	UN 1197 EXTRACTS, FLAVOURING, LIQUID, 3, III

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15 Regulatory information

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

· ***Australian Inventory of Industrial Chemicals***	
64-17-5	ethanol
64-19-7	Acetic acid
123-68-2	allyl hexanoate
	DECALACTONE GAMMA (NATUREL) (OK KOSHER)
3658-77-3	4-Hydroxy-2,5-dimethyl-3(2H)-furanone
123-92-2	Isoamyl acetate
123-35-3	7-methyl-3-methylene-1,6-octadiene
141-78-6	ethyl acetate
118-71-8	maltol
107-92-6	butyric acid
78-70-6	Linalool
75-18-3	Dimethyl sulfide
928-96-1	cis-3-hexenol
116-53-0	2-methylbutyric acid
106-27-4	Isoamyl butyrate
106-24-1	Geraniol
104-50-7	gamma-Octalactone
142-62-1	hexanoic acid
121-33-5	vanillin
2305-05-7	gamma-Dodecalactone
98-55-5	Alpha terpineol
123-51-3	isopentyl alcohol
127-91-3	beta-Pinene
	LACTIC ACID (NATURAL)
142-92-7	hexyl acetate
111-27-3	Hexyl alcohol
3681-71-8	cis-3-Hexen-1-yl acetate
27043-05-6	2-Ethyl-dimethylpyrazine (isomer unspecified)
105-87-3	Geranyl acetate
140-11-4	Benzyl acetate

· ***Standard for the Uniform Scheduling of Medicines and Poisons***		
64-19-7	Acetic acid	S2, S5, S6

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123-68-2	allyl hexanoate	S6
107-92-6	butyric acid	S6
5392-40-5	Citral	S5

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

GHS02

· ***Signal word*** Warning
· ***Hazard statements***
H226 Flammable liquid and vapour.
· ***Precautionary statements***
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
· ***Seveso category*** P5c FLAMMABLE LIQUIDS
· ***Qualifying quantity (tonnes) for the application of lower-tier requirements*** 5,000 t
· ***Qualifying quantity (tonnes) for the application of upper-tier requirements*** 50,000 t
· ***Chemical safety assessment:*** A Chemical Safety Assessment has not been carried out.

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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***
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H227 Combustible liquid.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

· ***Department issuing SDS:*** Regulation and technical service
· ***Contact:*** Regulation and technical service
· ***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)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Flam. Liq. 4: Flammable liquids – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1: Skin corrosion/irritation – Category 1
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1
Asp. Tox. 1: Aspiration hazard – Category 1
· **** Data compared to the previous version altered.***