Safety Data Sheet
according to WHS Regulations

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Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

· ***Other means of identification***

· ***Trade name:*** ***GRAPE 10X NATURAL FLAVOUR***

· ***Article number:*** AAGXX49
· ***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***

GHS02 flame

Flammable liquids – Category 2 H225 Highly flammable liquid and vapour.

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***

GHS02 GHS07

· ***Signal word*** Danger

· ***Hazard-determining components of labelling:***
4-Hydroxy-2,5-dimethyl-3(2H)-furanone (2.5-10 %)
Hexen-2-al (≥1-<2.5 %)
Linalool (≥1-≤2.5 %)
geraniol (≥1-≤2.5 %)
· ***Hazard statements***
H225 Highly flammable liquid and vapour.
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.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
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 Flammable liquids – Category 2, H225	50-100%
3658-77-3	4-Hydroxy-2,5-dimethyl-3(2H)-furanone Acute toxicity - oral – Category 4, H302; Skin sensitisation – Category 1, H317	2.5-10%
141-78-6	ethyl acetate Flammable liquids – Category 2, H225; Eye damage/irritation – Category 2A, H319; Specific target organ toxicity (single exposure) – Category 3, H336	≥2.5-<10%
105-54-4	ethyl butyrate Flammable liquids – Category 3, H226	2.5-10%
928-96-1	cis-3-hexenol Flammable liquids – Category 3, H226	≤2.5%
6728-26-3	Hexen-2-al Flammable liquids – Category 3, H226; Acute toxicity - dermal – Category 3, H311; Acute toxicity - oral – Category 4, H302; Skin corrosion/irritation – Category 2, H315; Skin sensitisation – Category 1, H317	≥1-<2.5%
118-71-8	maltol Acute toxicity - oral – Category 4, H302	≤2.5%
123-92-2	Isoamyl acetate Flammable liquids – Category 3, H226	≤2.5%
134-20-3	methyl anthranilate Eye damage/irritation – Category 2A, H319	≤2.5%
78-70-6	Linalool Skin corrosion/irritation – Category 2, H315; Skin sensitisation – Category 1B, H317; Flammable liquids – Category 4, H227	≥1-≤2.5%
106-24-1	geraniol Skin sensitisation – Category 1, H317	≥1-≤2.5%
142-92-7	hexyl acetate Flammable liquids – Category 3, H226	≥0.25-<2.5%
5471-51-2	4-(p-Hydroxyphenyl)-2-butanone 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:*** 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.
· ***Protective equipment:*** No special measures required.

6 Accidental Release Measures

· ***Personal precautions, protective equipment and emergency procedures***
Wear protective equipment. Keep unprotected persons away.
· ***Environmental precautions:***
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
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.

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· ***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:***
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:*** Store in a cool location.
· ***Information about storage in one common storage facility:*** Not required.
· ***Further information about storage conditions:***
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
· ***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:***	
64-17-5 ethanol	
WES	Long-term value: 1880 mg/m³, 1000 ppm
141-78-6 ethyl acetate	
WES	Short-term value: 1440 mg/m³, 400 ppm Long-term value: 720 mg/m³, 200 ppm
123-92-2 Isoamyl acetate	
WES	Short-term value: 541 mg/m³, 100 ppm Long-term value: 270 mg/m³, 50 ppm

· ***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:***

Wear protective gloves / face protection.

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9 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:***	13 °C
· ***Flammability***	Highly flammable.
· ***Auto-ignition temperature:***	425 °C
· ***Decomposition temperature:***	Not determined.
· ***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
· ***Vapour pressure at 50 °C:***	280 hPa
· ***Density at 20 °C:***	0.85 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:***	78.9 %
· ***Solids content:***	0.0 %
· ***Other information***	
· ***Particle characteristics***	Not applicable.
· ***Physical state***	Liquid

10 Stability and Reactivity

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

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· ***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.

14 Transport information

· ***UN-Number***	
· ***ADG, IMDG, IATA***	UN2924
· ***UN proper shipping name***	
· ***ADG***	2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ETHANOL (ETHYL ALCOHOL), Furaneol)
· ***IMDG***	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ETHANOL (ETHYL ALCOHOL), 4-Hydroxy-2,5-dimethyl-3(2H)-furanone)
· ***IATA***	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ETHANOL, 4-Hydroxy-2,5-dimethyl-3(2H)-furanone)
· ***Transport hazard class(es)***	
· ***ADG***	
· ***Class***	3 (FC) Flammable liquids.
· ***Label***	3+8
· ***IMDG***	
· ***Class***	3 Flammable liquids.
· ***Label***	3/8
· ***IATA***	
· ***Class***	3 Flammable liquids.
· ***Label***	3 (8)
· ***Packing group***	
· ***ADG, IMDG, IATA***	II
· ***Environmental hazards:***	Not applicable.
· ***Special precautions for user***	Warning: Flammable liquids.
· ***Hazard identification number (Kemler code):***	338
· ***EMS Number:***	F-E,S-C
· ***Stowage Category***	B
· ***Stowage Code***	SW2 Clear of living quarters.
· ***Transport in bulk according to Annex II of Marpol and the IBC Code***	Not applicable.

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· ***Transport/Additional information:***

· ***ADG***	
· ***Limited quantities (LQ)***	1L
· ***Excepted quantities (EQ)***	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· ***Transport category***	2
· ***Tunnel restriction code***	D/E
· ***IMDG***	
· ***Limited quantities (LQ)***	1L
· ***Excepted quantities (EQ)***	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· ***UN "Model Regulation":***	UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ETHANOL (ETHYL ALCOHOL), FURANEOL), 3 (8), II

15 Regulatory information

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

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

All ingredients are listed.

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

106-24-1	geraniol	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***

GHS02 GHS07

· ***Signal word*** Danger

· ***Hazard-determining components of labelling:***
4-Hydroxy-2,5-dimethyl-3(2H)-furanone (2.5-10 %)
Hexen-2-al (≥1-<2.5 %)
Linalool (≥1-≤2.5 %)
geraniol (≥1-≤2.5 %)

· ***Hazard statements***
H225 Highly flammable liquid and vapour.
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.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
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.

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.

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H227 Combustible liquid.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

· ***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)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flammable liquids – Category 2: Flammable liquids – Category 2
Flammable liquids – Category 3: Flammable liquids – Category 3
Flammable liquids – Category 4: Flammable liquids – Category 4
Acute toxicity - oral – Category 4: Acute toxicity – Category 4
Acute toxicity - dermal – Category 3: Acute toxicity – Category 3
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
Skin sensitisation – Category 1B: Skin sensitisation – Category 1B
Specific target organ toxicity (single exposure) – Category 3: Specific target organ toxicity (single exposure) – Category 3