SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ANABAC BERRY

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Sales No. : EAH41752/00 FRUITS ROUGES 18

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

Intended Use Fragrances : Perfume compound

1.3 Details of the supplier of the safety data sheet

INTERSCIENCE SARL

30, chemin du bois des Arpents 78860 Saint Nom la Bretèche FRANCE
Tel : +33 01 34 62 62 61

info@interscience.com

www.interscience.com

1.4 Emergency telephone number

+33140054848

Please refer to section 16 for a full list of emergency phone numbers.

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture - Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (Regulation (EC) No 1272/2008)

Additional Labelling:

EUH210 Safety data sheet available on request.

EUH208 Contains: ethyl 2,3-epoxy-3-phenylbutyrate, cyclohexylidene-o-tolyl-acetonitrile. , (1- methyl-2-(5-methylhex-4-en-2-yl)cyclopropyl)methanol. , 2,4-dimethylcyclohex-3-ene-1- carbaldehyde. , 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one. May produce an allergic reaction.

2.3 Other hazards

Hazards not Otherwise : None Classified.

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No1272/2008)	Concentration [Percent by weight]
2-phenylethanol	60-12-8 200-456-2 01-2119963921-31	Acute Tox. 4; H302 Eye Irrit. 2; H319	3,33
Benzyl acetate	140-11-4 205-399-7 01-2119638272-42	Aquatic Chronic 3; H412	2,99
decanal	112-31-2 203-957-4 01-2119967771-26	Eye Irrit. 2; H319 Aquatic Chronic 3; H412	2,66
2,6-dimethyl-7-octen-2-ol	18479-58-8 242-362-4 01-2119457274-37	Skin Irrit. 2; H315 Eye Irrit. 2; H319	1,66
2-methylpropyl 2-hydroxybenzoate	87-19-4 201-729-9	Acute Tox. 4; H302	1,66
4-(2,6,6-Trimethylcyclohex-1-en-1- yl)but-3-en-2-one (= ionone beta)	14901-07-6 238-969-9 01-2119449921-34	Aquatic Chronic 2; H411	1,33
ethyl 2,3-epoxy-3-phenylbutyrate	77-83-8 201-061-8 01-2119967770-28	Skin Sens. 1B; H317 Aquatic Chronic 2; H411	0,93

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice : Do not leave the victim unattended.

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If inhaled	: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: Take off contaminated clothing and shoes immediately. If on skin, rinse well with water.
In case of eye contact	: Remove contact lenses. Immediately flush eyes for at least 15 minutes. Get medical attention.
If swallowed	: Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : no data available

Risks : no data available

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : no data available

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	: Dry chemical Alcohol-resistant foam Carbon dioxide (CO2) Water spray
Unsuitable extinguishing media	: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : no data available

5.3 Advice for firefighters

Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting if necessary.
Further information	: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : no data available

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Not applicable

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling	: For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Advice on protection against fire and explosion	: Normal measures for preventive fire protection.
Temperature class	: no data available
Fire-fighting class	: no data available
Dust explosion class	: no data available

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	: Electrical installations / working materials must comply with the technological safety standards.
Further information on storage conditions	: Ambient / 10-30°C (50-85°F) Dry, well ventilated, preferably full, hermetically sealed
Advice on common storage	: Protect against light.
German storage class	: no data available
Other data	: No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : no data available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL

112-31-2 : End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 24,86 mg/m3

End Use: Workers
Exposure routes: Inhalation

Potential health effects: Acute systemic effects
Value: 49,71 mg/m3

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 62,14 mg/m3

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Acute local effects
Value: 124,3 mg/m3

End Use: Workers
Exposure routes: Dermal
Potential health effects: Long-term systemic effects
Value: 7,05 mg/kg bw/day

End Use: Workers
Exposure routes: Dermal
Potential health effects: Acute systemic effects
Value: 14,1 mg/kg bw/day

End Use: Workers
Exposure routes: Dermal
Potential health effects: Long-term local effects
Value: 17,62 mg/cm2

End Use: Workers
Exposure routes: Dermal
Potential health effects: Acute local effects
Value: 35,24 mg/cm2

End Use: Consumer use
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 6,13 mg/m3

End Use: Consumer use
Exposure routes: Inhalation
Potential health effects: Acute systemic effects
Value: 12,26 mg/m3

End Use: Consumer use
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 15,32 mg/m3

End Use: Consumer use
Exposure routes: Inhalation
Potential health effects: Acute local effects
Value: 30,65 mg/m3

End Use: Consumer use
Exposure routes: Dermal
Potential health effects: Long-term systemic effects
Value: 3,52 mg/kg bw/day

End Use: Consumer use
Exposure routes: Dermal
Potential health effects: Acute systemic effects
Value: 7,05 mg/kg bw/day

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End Use: Consumer use
Exposure routes: Dermal
Potential health effects: Long-term local effects
Value: 8,81 mg/cm2

End Use: Consumer use
Exposure routes: Dermal
Potential health effects: Acute local effects
Value: 17,62 mg/cm2

End Use: Consumer use
Exposure routes: Oral
Potential health effects: Long-term systemic effects
Value: 3,52 mg/kg bw/day

PNEC

112-31-2 : Fresh water
Value: 0,00117 mg/l

Fresh water sediment
Value: 0,097 mg/kg dry weight (d.w.)

Marine water
Value: 0,000117 mg/l

Marine sediment
Value: 0,00972 mg/kg dry weight (d.w.)

Sewage treatment plant
Value: 3,16 mg/l

Soil
Value: 0,019 mg/kg dry weight (d.w.)

8.2 Exposure controls

Personal protective equipment

Respiratory protection : Use only in well-ventilated areas.

Hand protection : Use gloves when handling substance in open systems.
Inspect gloves prior to use. Train operators for proper use.
If only incidental exposure is expected: (work without direct contact to substance) use gloves tested according EN 16523- 1 breakthrough times at least 10 minutes, tested for chemicals indicated in chapter 3 of this SDS.
Change gloves frequently. If direct skin contact is expected: use gloves tested according to EN 16523-1, tested for chemicals indicated in chapter 3 of this SDS. Permeation time must exceed contact time.

Eye protection : Use tightly fitting safety glasses according to EN 166.

Skin and body protection : Wear working clothes covering arms and legs.

Hygiene measures : Do not eat, drink or smoke during work.
Wash and dry hands after finished working.

Protective measures : Exposure assessment: Exposure is dependent on the product being handled, the potential for chemical release, and any resulting airborne concentrations or dermal contact. Since product handling and release scenarios vary, and no two workplaces are exactly alike, it is recommended that the potential for exposure be assessed prior to the product's use or introduction. Exposure assessments should be performed by an occupational hygienist, industrial hygienist, or other qualified occupational or environmental health professional. An exposure assessment should be conducted to determine the efficacy of any ventilation

and the need for additional respiratory protection.
PPE is always the last resort to avoid exposure. In any case technical and organisational measures have to be explored and used prior to the selection of PPE. The PPE selection is for operators trained to work with chemicals according to good industrial hygiene and safety practice. Operators have to be trained and used to PPE handling.

Environmental exposure controls

General advice	: Prevent product from entering drains. If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Form	: liquid
Colour	: colorless to Very slightly yellow
Taste	: not determined
Odour	: like fruit, Floral, Green
Odour Threshold	: Not applicable
Flash point	: 81 °C Method: Grabner miniflash closed cup
Lower explosion limit	: not determined
Upper explosion limit	: not determined
Flammability (solid, gas)	: Not applicable
Oxidizing properties	: no data available
Auto-ignition temperature	: not determined
Decomposition temperature	: no data available
pH	: not determined
Melting point	: not determined
Boiling point	: not determined
Vapour pressure	: 0,4549 hPa at 20 °C Calculated (99,3 %)
Density	: 1 005,18 kg/m3 at 20 °C
Bulk density	: Not applicable
Water solubility	: not determined
Solubility/qualitative	: practically insoluble
Partition coefficient: n-octanol/water	: Not applicable
Viscosity, kinematic	: no data available
Relative vapour density	: no data available
Evaporation rate	: no data available

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Explosive properties : no data available

9.2 Other information

Not applicable

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

none

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions: Stable under recommended storage conditions., No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : no data available

10.5 Incompatible materials

Materials to avoid : no data available

10.6 Hazardous decomposition products

Hazardous decomposition products : no data available

Thermal decomposition : no data available

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity : Acute toxicity estimate
Dose: > 2 000 mg/kg
Method: Calculation method

Acute oral toxicity

2-phenylethanol	: LD50: 1 790 mg/kg	Species: Rat
Benzyl acetate	: LD50: 2 490 mg/kg	Species: Rat
decanal	: LD50: > 33 320 mg/kg	Species: Rat
2,6-dimethyl-7-octen-2-ol	: LD50: 3 600 mg/kg	Species: Rat
2-methylpropyl 2- hydroxybenzoate	: LD50: 1 560 mg/kg	Species: Rat
ethyl 2,3-epoxy-3- phenylbutyrate	: LD50: > 5 000 mg/kg	Species: Rat
(1-methyl-2-(5-methylhex-4- yl)cyclopropyl)methanol	: LD50: > 2 000 mg/kg	Species: Rat en-2-
1-(2,6,6-trimethyl-3- cyclohexen-1-yl)-2-buten-1-one	: LD50: 1 821 mg/kg	Species: Mouse

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Acute inhalation toxicity	: No data is available on the product itself.	
Acute inhalation toxicity		
decanal	: Exposure time: 8 h No adverse effect has been observed in acute toxicity tests.	Species: Rat
Acute dermal toxicity	: No data is available on the product itself.	
Acute dermal toxicity		
decanal	: LD50: 4 173 mg/kg	Species: Rabbit
2-methylpropyl 2- hydroxybenzoate	: LD50: > 5 000 mg/kg	Species: Rabbit
ethyl 2,3-epoxy-3- phenylbutyrate	: LD50: > 5 000 mg/kg	Species: Rabbit
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	: LD50: 5 000 mg/kg	Species: Rabbit
(1-methyl-2-(5-methylhex-4- en-2-yl)cyclopropyl)methanol	: LD50: > 1 000 mg/kg	Species: Rat

Acute toxicity (other routes of administration)	: No data is available on the product itself.
Skin corrosion/irritation	
Skin irritation	: No data is available on the product itself.
Serious eye damage/eye irritation	
Eye irritation	: No data is available on the product itself.
Respiratory or skin sensitisation	
Sensitisation	: No data is available on the product itself.
Germ cell mutagenicity	
Germ cell mutagenicity	: No data is available on the product itself.
Carcinogenicity	
Carcinogenicity	: No data is available on the product itself.
Reproductive toxicity	
Reproductive toxicity	: No data is available on the product itself.
Target Organ Systemic Toxicant - Single exposure	
Target Organ Systemic Toxicant - Single exposure	: No data is available on the product itself.
Target Organ Systemic Toxicant - Repeated exposure	
Target Organ Systemic Toxicant - Repeated exposure	: No data is available on the product itself.
Aspiration hazard	
Aspiration toxicity	: No data is available on the product itself.
Phototoxicity	
Phototoxicity	: No data is available on the product itself.
Further information	: No data available

SECTION 12. ECOLOGICAL INFORMATION

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12.1 Toxicity

Toxicity to fish	: no data available
Toxicity to daphnia and other aquatic invertebrates	: no data available
Toxicity to algae M-Factor	: no data available
2,4-dimethylcyclohex-3-ene-1-carbaldehyde M-Factor	: 1
cyclohexylidene-o-tolyl- acetonitrile M-Factor	: 1
1-(2,6,6-trimethyl-3- cyclohexen-1-yl)-2-buten-1- one	: 1
Toxicity to bacteria	: no data available
Toxicity to fish (Chronic toxicity)	: no data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: no data available

Acute aquatic toxicity	: no data available
Chronic aquatic toxicity	: no data available
Toxicity Data on Soil	: no data available
Other organisms relevant to the environment	: no data available

12.2 Persistence and degradability

Biodegradability	: no data available
cyclohexylidene-o-tolyl- acetonitrile	: Result: Not readily biodegradable.

12.3 Bioaccumulative potential

Bioaccumulation : no data available

12.4 Mobility in soil

Mobility	: no data available
Distribution among environmental compartments	: no data available
Additional advice Environmental fate and pathways	: no data available
Physico-chemical removability	: no data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Biochemical Oxygen Demand (BOD)	: no data available
Dissolved organic carbon (DOC)	: no data available
Chemical Oxygen Demand (COD)	: no data available
Adsorbed organic bound halogens (AOX)	: no data available
Additional ecological information	: no data available

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SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

14.1 UN number

N/A

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

N/A

14.4 Packing group

N/A

14.5 Environmental hazards

N/A

14.6 Special precautions for user

IMDG

IMDG Code Segregation Group : None

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

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

Major Accident Hazard Legislation : Not applicable

Water contaminating class (Germany) : WGK 2 significantly water endangering
Classification according to AwSV, Annex 1 (5.2)

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

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SECTION 16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Full list of Emergency response numbers worldwide.

	Country	Phone nr		Country	Phone nr
Europe	All Europe	+44 1235 239670	APAC	All East/South East Asia	+65 3158 1074
	France (Paris)	+33 1 40 05 48 48		Sri Lanka	+65 3158 1195
	Germany	+49 69 222 25285		Taiwan	+886 2 8793 3212
	Spain	+34 91 114 2520		Japan	+81 3 4578 9341
	Italy	+39 02 3604 2884		Indonesia	007 803 011 0293
	Netherlands	+31 10 713 8195		Malaysia	+60 3 6207 4347
	Turkey	+90 212 375 5231		Thailand	001 800 120 666 751
	Norway	+47 2103 4452		India	+65 3158 1198 000 800 100 7479
	Greece	+30 21 1198 3182		Pakistan	+65 3158 1329
	Portugal	+351 30880 4750		Bangladesh	+65 3158 1200
	Denmark	+45 8988 2286		Philippines	+63 2 231 2149
	Sweden	+46 8 566 42573		Vietnam	+84 28 4458 2388
	Poland	+48 22 307 3690		Korea	+65 3158 1285
	Czech replublic	+420 228 882 830		South Korea	+82 2 3479 8401
	Finland	+358 9 7479 0199		Australia	+61 2 8014 4558
Middle East/Africa	All Middle East/Africa	+44 1235 239671		New Zealand	+64 9 929 1483
	Bahrain and Middle East	+973 1619 8321		China	+86 532 8388 9090
	Africa/South Africa	+27 21 300 2732	LATAM	Mexico	+52 55 5004 8763

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	USA and Canada	+1 202 464 2554		Colombia	+57 1 508 7337
Global	Global	+44 1865 407333		Argentina	+54 11 5984 3690

Key or legend to abbreviations and acronyms used in the safety data sheet

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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