



SAFETY DATA SHEET

TOMATO

1 Identification of the substance/mixture and the company/business

1.1 Product identifier

TOMATO

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

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Please find the actual manufacturer on product label

Supplier	: MANE (Shanghai) Fragrances & Flavours Co., Ltd
Address	: No. 612 Shan Lian Road, Baoshan Urban Industry Park- Shanghai 200444-CHINA
Telephone	: +86 21 3611 9900 (Only during office hours)
e-mail	: CN-SH.REG-SDS@mane.com
Supplier	: MANE (China) Fragrances & Flavours Co., Ltd
Address	: No. 988, Xinxingyi Road, Pinghu Economic Technological Development Zone- Pinghu 314200, Zhejiang Province- CHINA
Telephone	: +86 573 8509 8989 (Only during office hours)
e-mail	: CN-SH.REG-SDS@mane.com

1.4 Emergency telephone number

Official advisory body number	: CN number 0532-83889090
Other Emergency Numbers	:

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFICATION ACCORDING Reg. 1272/2008/CE

Physical hazards

No hazard specified.

Health Dangers

Skin Sens. 1: May cause an allergic skin reaction.

Environmental hazards

Aquatic Chronic 3: Harmful to aquatic life with long lasting effects.



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2.2 Label elements



GHS07

WARNING

H317: May cause an allergic skin reaction.

H412: Harmful to aquatic life with long lasting effects.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P273: Avoid release to the environment.

P333+P313: If skin irritation or rash occurs: Get medical advice.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P321: Specific treatment (see this label).

P363: Wash contaminated clothing before reuse.

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

P272: Contaminated work clothing should not be allowed out of the workplace.

EUH208: Contains GERANYLE PROPIONATE, CITRAL, GERANYLE ACETATE, p-tert-BUTYL CYCLOHEXYL ACETATE, D-LIMONENE, DIMETHYL CYCLOHEXENE CARBOXALDEHYDE, Beta PINENE, PINOACETALDEHYDE. May produce an allergic reaction.

2.3 Other hazards

PBT-Substances, vPvB-Substances: None

Endocrine Disruptors: None

Other information: None

For a complete list of references and phrases mentioned in this chapter, see chapter 16.

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No.: Not applicable

3.2 Mixtures

Hazardous Substances

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Component	CAS number REACH number Index number	Concentration limit	CLASSIFICATION ACCORDING Reg. 1272/2008/CE	Other hazard information
EUGENOL	97-53-0	[1 % , 5 %]	Skin Sens. 1B, H317 Eye Irrit. 2, H319	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral 2300 mg/kg CL50 Inhalation - vapor > 100 mg/l
5-METHYLHEPTAN-3-ONE OXIME	22457-23-4 01-2120747610-59-XXXX	[1 % , 5 %]	Aquatic Chronic 3, H412	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg CL50 Inhalation - vapor > 100 mg/l LD50 Oral 3500 mg/kg
2-TERT-PENTYLCYCLOHEXYL ACETATE	67874-72-0	[1 % , 5 %]	Aquatic Chronic 2, H411	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg CL50 Inhalation - vapor > 100 mg/l LD50 Oral > 5000 mg/kg
ETHYL ALCOHOL	64-17-5 603-002-00-5	[1 % , 5 %]	Flam. Liq. 2, H225 Eye Irrit. 2, H319	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral > 5000 mg/kg CL50 Inhalation - vapor > 100 mg/l
HEXYL CINNAMAL	101-86-0 01-2119533092-50-XXXX	[1 % , 5 %]	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M factor: 1 SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral 3100 mg/kg CL50 Inhalation - vapor > 100 mg/l
ALLYL ISOAMYLGLYCOLATE	67634-00-8 01-2120794630-50-XXXX	[1 % , 5 %]	Acute Tox. 4 Oral, H302 Skin irrit. 2, H315 Acute Tox. 2 Inhalation, H330	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral 730 mg/kg CL50 Inhalation - vapor 0.5000 mg/l
GERANYLE PROPIONATE	105-90-8	[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral > 5000 mg/kg CL50 Inhalation - vapor >

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Component	CAS number REACH number Index number	Concentration limit	CLASSIFICATION ACCORDING Reg. 1272/2008/CE	Other hazard information
				100 mg/l
CITRAL	5392-40-5 605-019-00-3	[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral > 5000 mg/kg CL50 Inhalation - vapor > 100 mg/l
GERANYLE ACETATE	105-87-3	[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral > 5000 mg/kg CL50 Inhalation - vapor > 100 mg/l
p-tert-BUTYL CYCLOHEXYL ACETATE	32210-23-4 01-2119976286-24-XXXX	[0.1 % , 1 %]	Skin Sens. 1B, H317	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral 3370 mg/kg CL50 Inhalation - vapor > 100 mg/l
D-LIMONENE	5989-27-5 601-096-00-2	[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M factor: 1 SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral > 5000 mg/kg CL50 Inhalation - vapor > 100 mg/l
DIMETHYL CYCLOHEXENE CARBOXALDEHYDE	68039-49-6 01-2119982384-28-XXXX	[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral 2330 mg/kg CL50 Inhalation - vapor > 100 mg/l
BENZYL BENZOATE	120-51-4 607-085-00-9	[0.1 % , 1 %]	Acute Tox. 4 Oral, H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M factor: 1 SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg CL50 Inhalation - vapor > 100 mg/l LD50 Oral 1160 mg/kg
ROSE OXIDE	16409-43-1 01-2119976300-42-XXXX	[0.1 % , 1 %]	Skin irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000

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Component	CAS number REACH number Index number	Concentration limit	CLASSIFICATION ACCORDING Reg. 1272/2008/CE	Other hazard information
				mg/kg LD50 Oral 4300 mg/kg CL50 Inhalation - vapor > 100 mg/l
Beta PINENE	127-91-3	[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M factor: 1 SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral > 5000 mg/kg CL50 Inhalation - vapor > 100 mg/l
ALLYL HEXANOATE	123-68-2 01-2119983573-26-XXXX	[0.1 % , 1 %]	Acute Tox. 3 Oral, H301 Acute Tox. 3 Dermal, H311 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M factor: 1 SCL: Not applicable ATE: LD50 Dermal 300 mg/kg LD50 Oral 218 mg/kg CL50 Inhalation - vapor > 100 mg/l
PINOACETALDEHYDE	33885-51-7 01-2120739476-45-XXXX	[0.1 % , 1 %]	Acute Tox. 4 Oral, H302 Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M factor: 1 SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral 632 mg/kg CL50 Inhalation - vapor > 100 mg/l

The REACH number is specific to V MANE FILS legal entity.

Ingredients having an occupational exposure limit value: See section 8.

4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.



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4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Water, CO2 or Foam

Extinguishing media to avoid

Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.

Cool containers exposed to flames with water until well after the fire is out.

5.3 Advice for firefighters

No specific precautions.

6 Measures to adopt in case of accidental dispersion

6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and material for containment and clean-up

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment.

For waste disposal, see section 13 of the SDS.

7 HANDLING AND STORAGE



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7.1 Precautions for safe handling

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.
Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.
Do not breathe vapor from heated material.

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)

No specific precautions.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

National OELs values

Component	CAS	Concentration limit	VLEP-8h (mg/m3)
ETHYL ALCOHOL	64-17-5	[1 % , 5 %[	ARGENTINA: 1480 BRAZIL: 1480 CHINA: None GERMANY: 380 FRANCE: 1900 INDONESIA: None JAPAN: None POLAND: 1900 UNITED STATES OF AMERICA: 1000 (NIOSH)

European Indicative OELs values

Component	CAS	Concentration limit	VLEP-8h (mg/m3)
PROPANOL, 2-METHOXYMETHYLETHOXY	34590-94-8	[50 % , 80 %[	308

8.2 Exposure controls

Face & eye protection:

Use safety glasses or a face shield according to Standard EN 166 and according to the hazard analysis specific to the workplace (chemical to be handled, protocol for use, frequency of use, quantity used, etc.).

Hand & skin protection:



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Use chemical resistant gloves in accordance with Standard EN 374 for protective gloves against chemicals. When prolonged or frequently repeated contact may occur, a glove with a protection class of 4 or higher (breakthrough time greater than 120 minutes according to Standard EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 1 or higher (breakthrough time greater than 10 minutes according to Standard EN 374) is recommended. Thickness ≥ 0.2 mm. Please observe the instructions regarding permeability and breakthrough time which are provided by the glove supplier. Permeation time must exceed contact time. Choose the type of gloves according to the chemical properties of the products being handled. Change gloves according to the manufacturer's recommendations or if they are damaged. Wear protective clothing covering the arms and legs. Use an apron or full suit if exposure is expected. These recommendations must be adapted according to the hazard analysis specific to the workplace.

Respiratory protection:

Use in a well-ventilated area.

In the event that ventilation is not sufficient to prevent inhalation of substances or reduce airborne concentrations below an established occupational exposure limit, use an adequate respiratory apparatus to supplement the engineering measures already in place.

These recommendations must be adapted according to the hazard analysis specific to the workplace.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: From COLORLESS to YELLOW
- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°C): 71.0 °C (159.8 °F)
- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: 3.32 mmHg
- Vapor Density: No data available.
- Specific Gravity: No data available.



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- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.

9.2 Other information

No other information noted.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

10.5 Incompatible materials



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No data available.

10.6 Hazardous decomposition products

No data available.

11 TOXICOLOGICAL INFORMATION

11.1 Hazard class information as defined in Regulation (EC) No. 1272/2008

Product Information

LD50 Dermal(mg/kg) > 5000 (Unknown: 0%) (Calculated)
LD50 Oral(mg/kg) > 5000 (Unknown: 0%) (Calculated)
LC50 - Inhalation - vapor(mg/l) 29.140 (Unknown: 0%) (Calculated)

Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
EUGENOL	97-53-0	[1 % , 5 %[	> 5000 <i>Estimated</i>	2300 <i>Estimated</i>	> 100 <i>Estimated</i>
ETHYL ALCOHOL	64-17-5	[1 % , 5 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
HEXYL CINNAMAL	101-86-0	[1 % , 5 %[	> 5000 <i>Estimated</i>	3100 <i>Estimated</i>	> 100 <i>Estimated</i>
ALLYL ISOAMYLGLYCOLATE	67634-00-8	[1 % , 5 %[	> 5000 <i>Estimated</i>	730 <i>Estimated</i>	0.5000 <i>Estimated</i>
GERANYLE PROPIONATE	105-90-8	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
CITRAL	5392-40-5	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
GERANYLE ACETATE	105-87-3	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
p-tert-BUTYL CYCLOHEXYL ACETATE	32210-23-4	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	3370 <i>Estimated</i>	> 100 <i>Estimated</i>
D-LIMONENE	5989-27-5	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
DIMETHYL CYCLOHEXENE CARBOXALDEHYDE	68039-49-6	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	2330 <i>Measured</i>	> 100 <i>Estimated</i>
ROSE OXIDE	16409-43-1	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	4300 <i>Estimated</i>	> 100 <i>Estimated</i>
Beta PINENE	127-91-3	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
ALLYL HEXANOATE	123-68-2	[0.1 % , 1 %[	300 <i>Measured</i>	218 <i>Measured</i>	> 100 <i>Estimated</i>
PINOACETALDEHYDE	33885-51-7	[0.1 % , 1 %[> 5000 <i>Estimated</i>	632 <i>Measured</i>	> 100 <i>Estimated</i>

Serious eye damage/irritation : No data available.



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Germ cell mutagenicity	: No data available.
Reproductive toxicity	: No data available.
Specific Target Organ - Single Exposure	: No data available.
Skin Sensitization	: No data available.
Cancerogenicity	: No data available.
Specific Target Organ (NE) - Single Exposure	: No data available.
Specific Target Organ - Repeated Exposure	: No data available.
Aspiration Hazard	: No data available.
Respiratory Sensitization	: No data available.
Skin corrosion/irritation	: No data available.

Information on likely routes of exposure

No data available.

Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

No data available.

Interactive effects

No data available.

11.2 Information on other hazards

Properties interfering with the endocrine system

Not applicable

Other information

No data available.

12 ECOLOGICAL INFORMATION



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12.1 Toxicity

Product Information

Toxicity Fish : No data available.
Toxicity Alga : No data available.
Toxicity Water Flea : No data available.

12.2 Persistence and degradability

Biodegradability : No data available.
Hydrosolubility : No data available.
Comments : None

12.3 Bioaccumulative potential

Log Pow (n-Octanol/Water Partition Coefficient) : No data available.
Bio Concentration Factor : No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Information on other hazards

Properties interfering with the endocrine system

Not applicable

Other information

No data available.

12.7 Other adverse effects

No data available.

13 DISPOSAL CONSIDERATIONS



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13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).

14 TRANSPORT INFORMATION

ADR

Not regulated

IATA

Not regulated

IMDG

Not regulated

RID

Not regulated

14.1 Special precautions for user

No recommendation given.

15 Regulatory information

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

Water Hazard Class (WGK): WGK 2 (Hazard to waters)

SEVESO III: DIRECTIVE 2012/18/EU of the European parliament and of the council on the control of major-accident hazards involving dangerous substances.

Section(s) of the ICPE nomenclature (France): 4110, 4120, 4140, 4330, 4331, 4510, 4511

Other regulations can apply:

Directive 92/85/EEC on the maternity Protection or stricter national regulations if applicable.

Directive 94/33/EC on the protection of young people at work or stricter national regulations, if applicable.

15.2 Chemical safety assessment

No data available.

16 OTHER INFORMATION



16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H361	Suspected of damaging fertility or the unborn child.
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.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P273: Avoid release to the environment.

P333+P313: If skin irritation or rash occurs: Get medical advice.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P321: Specific treatment (see this label).

P363: Wash contaminated clothing before reuse.

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

P272: Contaminated work clothing should not be allowed out of the workplace.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service

CO₂: Carbon dioxide

LD₅₀: Lethal dose 50

NTP: National Toxicology program

IARC: International Agency for Research on Cancer

OSHA: Occupational Safety and Health Administration

UN: United Nations

IMDG : International Maritime Dangerous Goods

IATA : International Air Transport Association

Classification codes

Acute Tox. 3 Dermal	: Acute toxicity Category 3 Dermal
Acute Tox. 2 Inhalation	: Acute toxicity Category 2 Inhalation
Acute Tox. 3 Oral	: Acute toxicity Category 3 Oral



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Acute Tox. 4 Oral	: Acute toxicity Category 4 Oral
Aquatic Acute 1	: Acute hazards to the aquatic environment Category 1
Aquatic Chronic 1	: Chronic hazards to the aquatic environment Category 1
Aquatic Chronic 2	: Chronic hazards to the aquatic environment Category 2
Aquatic Chronic 3	: Chronic hazards to the aquatic environment Category 3
Asp. Tox. 1	: Aspiration hazard Category 1
Eye Irrit. 2	: Serious eye damage/eye irritation Category 2
Flam. Liq. 2	: Flammable liquids Category 2
Flam. Liq. 3	: Flammable liquids Category 3
Repr. 2	: Toxic for Reproduction Category 2
Skin irrit. 2	: Skin corrosion/irritation Category 2
Skin Sens. 1	: Skin sensitizer Category 1
Skin Sens. 1B	: Skin sensitizer Category 1B

16.3 Key literature references and sources for data

This safety Data Sheet has been prepared in accordance with Regulation EC 1907/2006 and its amendments. The information given correspond to the knowledge we have on the date mentioned on this document and is based on the recommendations of the EFFA and IOFI/IFRA working groups.

To specify modifications that appear in document since the previous version, we note this symbol [X] in front of each section containing a modification.

We cannot be held responsible in the event of improper usage of this product. It is up to the user to analyse the information given and to determine appropriate handling conditions for the safe use of this product.

It is the user's liability to conform to all local, national, and international regulations that apply to its activities.

This automatically generated safety data sheet is valid without signature.