



SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

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

1.1. Product identifier

Product name : CHALLENGE
Product code : 10761Q.

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

1.3. Details of the supplier of the safety data sheet

Registered company name : FLORESSENCE.
Address : Z.I DE LA FESTRE SUD .06535.ST CEZAIRE SUR SIAGNE.FRANCE.
Telephone : 04 93 40 59 60. Fax : 04 93 40 59 69.
danielle.maniquant@elixens.com
www.elixens.com
Appel d'Urgence: +33 (0) 2 98 33 10 10 UTMD001

1.4. Emergency telephone number : +33 (0) 1 45 42 59 59.

Association/Organisation : INRS .

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Eye irritation, Category 2 (Eye Irrit. 2, H319).
Skin sensitisation, Category 1 (Skin Sens. 1, H317).
Carcinogenicity, Category 2 (Carc. 2, H351).
Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).
This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Possibility of skin sensitisation. The mixture may also irritate the skin and prolonged contact may aggravate this effect.
Possibility of category three carcinogenic effects.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS07



GHS09



GHS08

Signal Word :
WARNING

Product identifiers :
609-069-00-7 MUSK KETONE
EC 202-086-7 COUMARIN
EC 203-518-7 HYDROXYCITRONELLAL
EC 203-377-1 GERANIOL (SEE FOOTNOTE 1)

Hazard statements :
H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.
H351 Suspected of causing cancer .
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements - Prevention :

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash ... thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.

Precautionary statements - Response :

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P321 Specific treatment (see ... on this label).
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.

Precautionary statements - Storage :

P405 Store locked up.

Precautionary statements - Disposal :

P501 Dispose of contents/container to ...

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Hazard symbols :



Harmful



Dangerous for the environment

Contains :

609-069-00-7 MUSK KETONE
EC 203-377-1 GERANIOL (SEE FOOTNOTE 1)
EC 203-518-7 HYDROXYCITRONELLAL
EC 202-086-7 COUMARIN

Risk phrase :

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 43 May cause sensitisation by skin contact.
R 40 Limited evidence of a carcinogenic effect.

Safety phrase :

S 36/37 Wear suitable protective clothing and gloves.
S 61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
S 60 This material and its container must be disposed of as hazardous waste.
S 57 Use appropriate container to avoid environmental contamination.

2.3. Other hazards

No data available.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

No substances fulfil the criteria set forth in annexe II section A of the REACH regulation (EC) n° 1907/2006.

3.2. Mixtures

Composition :

Identification	Name	Classification	%
INDEX: I111_90_0 CAS: 111-90-0 EC: 203-919-7	DIETHYLENE GLYCOL MONO-ETHYLETHER (2-(2-ETHOXYETHOXY) ETHANOL)		10 <= x % < 25
INDEX: 609-069-00-7 CAS: 81-14-1 EC: 201-328-9	MUSK KETONE	GHS08, GHS09, Wng Xn,N H:351-410 R: 40.C3-50/53	2.5 <= x % < 10
INDEX: I78_70_6 CAS: 78-70-6 EC: 201-134-4	LINALOOL	GHS07, Wng Xi H:315 R: 38	2.5 <= x % < 10
INDEX: I91_64_5 CAS: 91-64-5 EC: 202-086-7	COUMARIN	GHS07, Wng Xn H:302-317 R: 43-22	2.5 <= x % < 10
INDEX: I107_75_5 CAS: 107-75-5 EC: 203-518-7	HYDROXYCITRONELLAL	GHS07, Wng Xi H:319-317 R: 36-43	1 <= x % < 2.5
INDEX: I106_24_1 CAS: 106-24-1 EC: 203-377-1	GERANIOL (SEE FOOTNOTE 1)	GHS05, Dgr Xi H:315-318-317 R: 38-41-43	1 <= x % < 2.5
INDEX: I60_12_8 CAS: 60-12-8 EC: 200-456-2	PHENYLETHYLALCOHOL	GHS07, Wng Xi H:319 R: 36	1 <= x % < 2.5
INDEX: I140_11_4 CAS: 140-11-4 EC: 205-399-7	BENZYL ACETATE		1 <= x % < 2.5
INDEX: I115_95_7 CAS: 115-95-7 EC: 204-116-4	LINALYL ACETATE	GHS09 N H:411 R: 51/53	0 <= x % < 1
INDEX: I127_51_5 CAS: 127-51-5 EC: 204-846-3	ALPHA-ISOMETHYL-IONONE	GHS07, GHS09, Wng Xi,N H:317-411 R: 43-51/53	0 <= x % < 1
INDEX: I121_33_5 CAS: 121-33-5 EC: 204-465-2	VANILLIN	GHS07, Wng Xi H:317 R: 43	0 <= x % < 1
INDEX: I106_22_9 CAS: 106-22-9 EC: 203-375-0	CITRONELLOL	GHS07, GHS09, Wng Xi,N H:315-317-411 R: 38-43-51/53	0 <= x % < 1
INDEX: 601-029-00-7 CAS: 5989-27-5 EC: 227-813-5	(R)-P-MENTHA-1,8-DIENE	GHS02, GHS07, GHS09, Wng Xi,N H:226-315-317-410 R: 10-38-43-50/53	0 <= x % < 1
INDEX: I97_54_1 CAS: 97-54-1 EC: 202-590-7	ISOEUGENOL	GHS07, Wng Xn H:302-312-315-319-317 R: 36/38-43-21/22	0 <= x % < 1

INDEX: I101_86_0 CAS: 101-86-0 EC: 202-983-3	ALPHA-HEXYL CINNAMIC ALDEHYDE (HCA)	GHS07, GHS09, Wng Xi,N H:317-410 R: 43-50/53	0 <= x % < 1
INDEX: I65113_99_7 CAS: 65113-99-7 EC: 265-453-0	5-(2,3,3-TRIMETHYL-3-CYCLOPENTENYL)-3-METHYLPENTAN-2-OL	GHS09, Wng N H:410 R: 50/53	0 <= x % < 1
INDEX: I104_54_1 CAS: 104-54-1 EC: 203-212-3	CINNAMIC ALCOHOL	GHS07, Wng Xi H:317 R: 43	0 <= x % < 1
INDEX: I105_87_3 CAS: 105-87-3 EC: 203-341-5	GERANYL ACETATE	GHS09 N H:411 R: 51/53	0 <= x % < 1
INDEX: 607-085-00-9 CAS: 120-51-4 EC: 204-402-9	BENZYL BENZOATE	GHS07, GHS09, Wng Xn,N H:302-411 R: 51/53-22	0 <= x % < 1
INDEX: I118_58_1 CAS: 118-58-1 EC: 204-262-9	BENZYL SALICYLATE	GHS07, GHS09, Wng Xi,N H:317-411 R: 43-51/53	0 <= x % < 1
INDEX: I89_88_3 CAS: 89-88-3 EC: 268-578-9	VETIVEROL	GHS07, Wng Xi H:315-319-317 R: 36/38-43	0 <= x % < 1
INDEX: I7212_44_4 CAS: 7212-44-4 EC: 230-597-5	NEROLIDOL (ISOMER UNSPECIFIED)	GHS09, Wng N H:410 R: 50/53	0 <= x % < 1
INDEX: I6259_76_3 CAS: 6259-76-3 EC: 228-408-6	HEXYL SALICYLATE	GHS07, GHS09, Wng Xi,N H:315-319-317-410 R: 38-43-50/53	0 <= x % < 1
INDEX: I112_45_8 CAS: 112-45-8 EC: 203-973-1	10-UNDECENAL	GHS07, GHS09, Wng Xi,N H:315-411 R: 38-51/53	0 <= x % < 1
INDEX: I112_54_9 CAS: 112-54-9 EC: 203-893-6	DODECANAL	GHS07, GHS09, Wng Xi,N H:315-411 R: 38-51/53	0 <= x % < 1
INDEX: I469_61_4 CAS: 469-61-4 EC: 207-418-4	ALPHA-CEDRENE	GHS08, Dgr Xn,N H:304 R: 50/53-65	0 <= x % < 1

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of splashes or contact with eyes :

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing :

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention immediately, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

5.3. Advice for firefighters

No data available.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non fire-fighters

Avoid any contact with the skin and eyes.

For fire-fighters

Fire-fighters will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Fire prevention :

- Handle in well-ventilated areas.
- Prevent access by unauthorised personnel.

Recommended equipment and procedures :

- For personal protection, see section 8.
- Observe precautions stated on label and also industrial safety regulations.
- Avoid skin and eye contact with this mixture.
- Avoid exposure - obtain special instructions before use.
- Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures :

- No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

- No data available.

Storage

- The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Packaging

- Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

- No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- Germany - AGW (BAuA - TRGS 900, 21/06/2010) :

CAS	VME :	VME :	Excess	Notes
111-90-0	6 ml/m3	35 mg/m3	2(I)	AGS

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

- Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



- Use personal protective equipment that is clean and has been properly maintained.
- Store personal protective equipment in a clean place, away from the work area.
- Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

- Avoid contact with eyes.
- Use eye protectors designed to protect against liquid splashes
- Before handling, wear safety goggles with protective sides accordance with standard EN166.
- In the event of high danger, protect the face with a face shield.
- Prescription glasses are not considered as protection.
- Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.
- Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

- Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.
- Gloves must be selected according to the application and duration of use at the workstation.
- Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.
- Type of gloves recommended :
 - Butyl Rubber (Isobutylene-isoprene copolymer)

Recommended properties :

- Impervious gloves in accordance with standard EN374

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state : fluid liquid.

Important health, safety and environmental information

pH : Not relevant.

Boiling point/boiling range : not relevant.

Flash Point Interval : 60°C < PE <= 93°C

Vapour pressure : not relevant.

Density : not stated.

Water solubility : Insoluble.

Melting point/melting range : not relevant.

Self-ignition temperature : not relevant.

Decomposition point/decomposition range : not relevant.

9.2. Other information

No data available.

SECTION 10 : STABILITY AND REACTIVITY

To be translated (XML)

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

10.5. Incompatible materials

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO2)

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

Splashes in the eyes may cause irritation and reversible damage
May cause an allergic reaction by skin contact.
Suspected human carcinogen.

11.1.1. Substances

Acute toxicity :

BENZYL SALICYLATE (CAS: 118-58-1)	
Oral route :	DL50 = 2200 mg/kg
CINNAMIC ALCOHOL (CAS: 104-54-1)	
Oral route :	DL50 = 2500 mg/kg
ALPHA-HEXYL CINNAMIC ALDEHYDE (HCA) (CAS: 101-86-0)	
Oral route :	DL50 = 3100 mg/kg
ISOEUGENOL (CAS: 97-54-1)	
Oral route :	DL50 = 1500 mg/kg
Dermal route :	DL50 = 1900 mg/kg
CITRONELLOL (CAS: 106-22-9)	
Oral route :	DL50 = 3450 mg/kg
Dermal route :	DL50 = 2650 mg/kg
VANILLIN (CAS: 121-33-5)	
Oral route :	DL50 = 3500 mg/kg
BENZYL ACETATE (CAS: 140-11-4)	
Oral route :	DL50 = 2490 mg/kg
PHENYLETHYLALCOHOL (CAS: 60-12-8)	
Oral route :	DL50 = 2500 mg/kg
GERANIOL (SEE FOOTNOTE 1) (CAS: 106-24-1)	
Oral route :	DL50 = 4200 mg/kg
COUMARIN (CAS: 91-64-5)	
Oral route :	DL50 = 500 mg/kg
LINALOOL (CAS: 78-70-6)	
Oral route :	DL50 = 2500 mg/kg

11.1.2. Mixture

No toxicological data available for the mixture.

Monograph(s) from the IARC (International Agency for Research on Cancer) :

CAS 91-64-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.
CAS 140-11-4 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.
CAS 5989-27-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

SECTION 12 : ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects.
The product must not be allowed to run into drains or waterways.

12.1. Toxicity

12.1.1. Substances

No aquatic toxicity data available for the substances.

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

German regulations concerning the classification of hazards for water (WGK) :

WGK 2 (VwVwS vom 27/07/2005, KBws) : Hazardous for water.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2011 - IMDG 2010 - ICAO/IATA 2011).

- Classification :



- Environmentally hazardous material :



UN3082=ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(musk ketone)

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	9	M6	III	9	90	5 L	274 335 601	E1	3	E

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ
	9	-	III	5 L	F-A,S-F	274 335	E1

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	9	-	III	964	450 L	964	450 L	A97 A158	E1
	9	-	III	Y964	30 kg G	-	-	A97 A158	E1

SECTION 15 : REGULATORY INFORMATION

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

- Particular provisions :

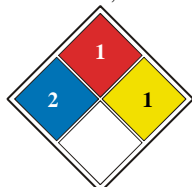
No data available.

- German regulations concerning the classification of hazards for water (WGK) :

Germany : WGK 2 (VwVwS vom 27/07/2005, KBws)

- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :

NFPA 704, Labelling: Health=2 Inflammability=1 Instability/Reactivity=1 Specific Risk=none



15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Title for H, EUH and R indications mentioned in section 3 :

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer .
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
R 10	Flammable.
R 21/22	Harmful in contact with skin and if swallowed.
R 22	Harmful if swallowed.
R 36	Irritating to eyes.
R 36/38	Irritating to eyes and skin.
R 38	Irritating to skin.
R 40.C3	Limited evidence of a carcinogenic effect.
R 41	Risk of serious damage to eyes.
R 43	May cause sensitisation by skin contact.
R 50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 65	Harmful: may cause lung damage if swallowed.

Abbreviations :

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).