

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version 1.0      Revision Date: 2024/08/01      SDS Number: 30-41-400000194932      Date of last issue: -  
Date of first issue: 2024/08/01

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM  
Formula Center Reference : 2042301 04

#### Manufacturer or supplier's details

Company : Loreal Operations  
Address : No. 1028, YunQiao Road, Jinaqiao Pudong  
Shanghai 201206  
China

Telephone : 0512-62982350

E-mail address : CHEN2.ZHAHG@LOREAL.COM

#### Emergency telephone

National Poisons Control Center : 0512-62982325  
INFOTRAC : +1-723-499-2745 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)  
nacorpeuropesdsrequest@loreal.com

#### Recommended use of the chemical and restrictions on use

Recommended use : Personal care product used for cosmetic effect.

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### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

<b>Appearance</b>	: liquid
<b>Color</b>	: blue
<b>Odor</b>	: characteristic

Highly flammable liquid and vapor. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

#### GHS Classification

Flammable liquids : Category 2

Serious eye damage/eye irritation : Category 2A

Short-term (acute) aquatic hazard : Category 3

# SAFETY DATA SHEET



according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version 1.0      Revision Date: 2024/08/01      SDS Number: 30-41-400000194932      Date of last issue: -  
Date of first issue: 2024/08/01

Long-term (chronic) aquatic hazard : Category 3

### GHS label elements

Hazard pictograms :  

Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapor.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements : P102 Keep out of reach of children.  
P103 Read label before use.

### Prevention:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.  
No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P264 Wash hands thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.

### Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version 1.0      Revision Date: 2024/08/01      SDS Number: 30-41-400000194932      Date of last issue: -  
Date of first issue: 2024/08/01

### Physical and chemical hazards

Highly flammable liquid and vapor.

### Health hazards

Causes serious eye irritation.

### Environmental hazards

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

### Additional Labeling

The following percentage of the mixture consists of ingredient(s) with unknown acute oral toxicity: 1.5796 %

The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 1.5796 %

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 1.5796 %

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 1.5796 %

### Other hazards which do not result in classification

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Components

Chemical name	CAS-No.	Concentration (% w/w)
ALCOHOL	64-17-5	>= 70 -< 90
ETHYLHEXYL SALICYLATE	118-60-5	>= 0.25 -< 1
LINALOOL	78-70-6	>= 0.25 -< 1
LINALYL ACETATE	115-95-7	>= 0.25 -< 1
4H-INDEN-4-ONE, 1,2,3,5,6,7-HEXAHYDRO-1,1,2,3,3-PENTAMETHYL-	33704-61-9	>= 0.25 -< 1
2H-Indeno[4,5-b]furan, decahydro-2,2,6,6,7,8,8-heptamethyl-	476332-65-7	>= 0.25 -< 1
LIMONENE	5989-27-5	>= 0.1 -< 0.25
PROPANEDIOIC ACID, 1-(3,3-DIMETHYLCYCLOHEXYL)ETHYL ETHYL ESTER	478695-70-4	>= 0.1 -< 0.25
TRIMETHYLCYCLOPENTENYL DIMETHYLISOPENTENOL	107898-54-4	>= 0.1 -< 0.25

## 4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.  
If inhaled : If symptoms persist, call a physician.  
In case of skin contact : Get medical attention if irritation develops and persists.

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2024/08/01	30-41-400000194932	Date of first issue: 2024/08/01

In case of eye contact : Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a specialist.

If swallowed : Rinse mouth with water. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : Causes serious eye irritation.

Notes to physician : Treat symptomatically.

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### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known.

Specific extinguishing methods : For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

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### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version 1.0      Revision Date: 2024/08/01      SDS Number: 30-41-400000194932      Date of last issue: -  
Date of first issue: 2024/08/01

/ national regulations (see section 13).

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### 7. HANDLING AND STORAGE

#### Handling

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling : Avoid contact with eyes. For personal protection see section 8. Provide sufficient air exchange and/or exhaust in work rooms. Container may be opened only under exhaust ventilation hood. Open drum carefully as content may be under pressure.

Avoidance of contact : Not applicable

#### Storage

Conditions for safe storage : No smoking. Keep container tightly closed in a dry and well-ventilated place. Observe label precautions.

Further information on storage stability : No decomposition if stored and applied as directed.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ALCOHOL	64-17-5	STEL	1,000 ppm	ACGIH

#### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Eye/face protection : Applicable for industrial settings only. Safety glasses

Skin and body protection : Applicable for industrial settings only. Work uniform or laboratory coat.

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2024/08/01	30-41-400000194932	Date of first issue: 2024/08/01

Hand protection

Remarks : Applicable for industrial settings only. Nitrile rubber

Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Color	: blue
Odor	: characteristic
pH	: Not applicable
Melting point/freezing point	: No data available
Boiling point/boiling range	: > 38 °C
Flash point	: 13.0 °C Method: ISO 3679
Fire Point	: < 100 °C Method: ISO 2592
Flammability (liquids)	: Sustains combustion
Upper explosion limit / Upper flammability limit	: 19 %(V) (for a component of this mixture)
Lower explosion limit / Lower flammability limit	: 3.3 %(V) (for a component of this mixture)
Vapor pressure	: 59.5 hPa (20 °C) (for a component of this mixture)
Relative vapor density	: No data available
Relative density	: 0.8509 - 0.8511 (20 °C)
Solubility(ies)	
Water solubility	: insoluble
Partition coefficient: n-	: Not applicable

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2024/08/01	30-41-400000194932	Date of first issue: 2024/08/01

octanol/water

Autoignition temperature : 365 °C  
(for a component of this mixture)

Decomposition temperature : Not applicable

Viscosity  
Viscosity, kinematic : No data available

Dust explosion class : Not applicable

Particle characteristics  
Particle size : Not applicable

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### 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.  
Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Not applicable

Hazardous decomposition products : No hazardous decomposition products are known.

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### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### Components:

#### ALCOHOL:

Acute oral toxicity : LD50 (Rat, male and female): 10,470 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat, male and female): 124.7 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version 1.0      Revision Date: 2024/08/01      SDS Number: 30-41-400000194932      Date of last issue: -  
Date of first issue: 2024/08/01

Acute dermal toxicity : LD50 (Rabbit): 15,800 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on data from similar materials

### ETHYLHEXYL SALICYLATE:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### LINALOOL:

Acute oral toxicity : LD50 (Rat, male and female): 2,790 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Mouse, male and female): > 3.2 mg/l  
Exposure time: 1.5 h  
Test atmosphere: vapor

Acute dermal toxicity : LD50 (Rabbit, male and female): 5,610 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### LINALYL ACETATE:

Acute oral toxicity : LD50 (Rat, male and female): > 9,000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat, male and female): 18.94 mg/l  
Exposure time: 8 h  
Test atmosphere: vapor  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2024/08/01	30-41-400000194932	Date of first issue: 2024/08/01

### **4H-INDEN-4-ONE, 1,2,3,5,6,7-HEXAHYDRO-1,1,2,3,3-PENTAMETHYL-:**

Acute oral toxicity : LD50 (Rat, male and female): 2,685 mg/kg  
Method: OECD Test Guideline 401

### **2H-Indeno[4,5-b]furan, decahydro-2,2,6,6,7,8,8-heptamethyl-:**

Acute oral toxicity : LD50 (Rat, male and female): > 2,500 mg/kg  
Method: OECD Test Guideline 423  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on data from similar materials

### **LIMONENE:**

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

### **PROPANEDIOIC ACID, 1-(3,3-DIMETHYLCYCLOHEXYL)ETHYL ETHYL ESTER:**

Acute oral toxicity : LD50 (Rat): > 2,500 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

### **TRIMETHYLCYCLOPENTENYL DIMETHYLISOPENTENOL:**

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: Regulation (EC) No. 440/2008, Annex, B.3  
Assessment: The substance or mixture has no acute dermal toxicity

### **Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version 1.0      Revision Date: 2024/08/01      SDS Number: 30-41-400000194932      Date of last issue: -  
Date of first issue: 2024/08/01

### Product:

Remarks : May irritate eyes.

### Components:

#### **ALCOHOL:**

Species : Rabbit  
Result : Eye irritation  
Method : OECD Test Guideline 405

#### **ETHYLHEXYL SALICYLATE:**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

#### **LINALOOL:**

Species : Rabbit  
Result : Eye irritation  
Method : OECD Test Guideline 405

#### **LINALYL ACETATE:**

Species : Rabbit  
Result : Eye irritation  
Method : Draize Test

#### **4H-INDEN-4-ONE, 1,2,3,5,6,7-HEXAHYDRO-1,1,2,3,3-PENTAMETHYL-:**

Result : Eye irritation  
Method : OECD Test Guideline 438

#### **2H-Indeno[4,5-b]furan, decahydro-2,2,6,6,7,8,8-heptamethyl-:**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405  
Remarks : Based on data from similar materials

#### **LIMONENE:**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

#### **TRIMETHYLCYCLOPENTENYL DIMETHYLISOPENTENOL:**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2024/08/01	30-41-400000194932	Date of first issue: 2024/08/01

### Respiratory or skin sensitization

#### Skin sensitization

Based on available data, the classification criteria are not met.

#### Respiratory sensitization

Based on available data, the classification criteria are not met.

#### Components:

##### ALCOHOL:

Routes of exposure	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitization.
Remarks	:	Based on data from similar materials

##### ETHYLHEXYL SALICYLATE:

Routes of exposure	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitization.

##### LINALOOL:

Routes of exposure	:	Skin contact
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	The product is a skin sensitizer, sub-category 1B.

##### LINALYL ACETATE:

Routes of exposure	:	Skin contact
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	The product is a skin sensitizer, sub-category 1B.

##### 4H-INDEN-4-ONE, 1,2,3,5,6,7-HEXAHYDRO-1,1,2,3,3-PENTAMETHYL-:

Routes of exposure	:	Skin contact
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	The product is a skin sensitizer, sub-category 1B.

##### 2H-Indeno[4,5-b]furan, decahydro-2,2,6,6,7,8,8-heptamethyl-:

Routes of exposure	:	Skin contact
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	The product is a skin sensitizer, sub-category 1B.
Remarks	:	Based on data from similar materials

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2024/08/01	30-41-400000194932	Date of first issue: 2024/08/01

### LIMONENE:

Routes of exposure	:	Skin contact
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	The product is a skin sensitizer, sub-category 1B.
Remarks	:	Causes sensitization.

### PROPANEDIOIC ACID, 1-(3,3-DIMETHYLCYCLOHEXYL)ETHYL ETHYL ESTER:

Routes of exposure	:	Skin contact
Result	:	Does not cause skin sensitization.

### TRIMETHYLCYCLOPENTENYL DIMETHYLISOPENTENOL:

Routes of exposure	:	Skin contact
Species	:	Guinea pig
Method	:	Maximization Test
Result	:	Does not cause skin sensitization.

### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

### Components:

#### ALCOHOL:

Germ cell mutagenicity - Assessment	:	Weight of evidence does not support classification as a germ cell mutagen.
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#### ETHYLHEXYL SALICYLATE:

Germ cell mutagenicity - Assessment	:	Weight of evidence does not support classification as a germ cell mutagen.
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#### LINALOOL:

Germ cell mutagenicity - Assessment	:	Weight of evidence does not support classification as a germ cell mutagen.
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#### LINALYL ACETATE:

Germ cell mutagenicity - Assessment	:	Weight of evidence does not support classification as a germ cell mutagen.
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#### 4H-INDEN-4-ONE, 1,2,3,5,6,7-HEXAHYDRO-1,1,2,3,3-PENTAMETHYL-:

Germ cell mutagenicity - Assessment	:	Weight of evidence does not support classification as a germ cell mutagen.
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#### 2H-Indeno[4,5-b]furan, decahydro-2,2,6,6,7,8,8-heptamethyl-:

Germ cell mutagenicity - Assessment	:	Weight of evidence does not support classification as a germ cell mutagen.
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# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version 1.0      Revision Date: 2024/08/01      SDS Number: 30-41-400000194932      Date of last issue: -  
Date of first issue: 2024/08/01

### LIMONENE:

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### TRIMETHYLCYCLOPENTENYL DIMETHYLISOPENTENOL:

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### Carcinogenicity

Based on available data, the classification criteria are not met.

### Components:

#### ALCOHOL:

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

#### LINALOOL:

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

#### 2H-Indeno[4,5-b]furan, decahydro-2,2,6,6,7,8,8-heptamethyl-:

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

### Reproductive toxicity

Based on available data, the classification criteria are not met.

### Components:

#### ALCOHOL:

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

#### ETHYLHEXYL SALICYLATE:

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

#### LINALOOL:

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

#### LINALYL ACETATE:

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2024/08/01	30-41-400000194932	Date of first issue: 2024/08/01

Assessment reproductive toxicity

### **4H-INDEN-4-ONE, 1,2,3,5,6,7-HEXAHYDRO-1,1,2,3,3-PENTAMETHYL-:**

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

### **LIMONENE:**

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

### **TRIMETHYLCYCLOPENTENYL DIMETHYLISOPENTENOL:**

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

### **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.

### **Components:**

### **4H-INDEN-4-ONE, 1,2,3,5,6,7-HEXAHYDRO-1,1,2,3,3-PENTAMETHYL-:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **TRIMETHYLCYCLOPENTENYL DIMETHYLISOPENTENOL:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **Repeated dose toxicity**

### **Components:**

#### **LINALOOL:**

Species : Rat, male  
NOAEL : 497.9 mg/kg  
Application Route : Oral  
Exposure time : 96 d  
Method : OECD Test Guideline 408

Species : Rat, male and female  
NOAEL : 250 mg/kg  
Application Route : Dermal  
Exposure time : 91 d  
Method : OECD Test Guideline 411

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2024/08/01	30-41-400000194932	Date of first issue: 2024/08/01

### 4H-INDEN-4-ONE, 1,2,3,5,6,7-HEXAHYDRO-1,1,2,3,3-PENTAMETHYL-:

Species	: Rat, male and female
NOAEL	: 10 mg/kg
Application Route	: Oral
Exposure time	: 90 d
Method	: OECD Test Guideline 408

### 2H-Indeno[4,5-b]furan, decahydro-2,2,6,6,7,8,8-heptamethyl-:

Species	: Rat, male and female
NOAEL	: 150 mg/kg
Application Route	: Oral
Exposure time	: 28 d
Method	: OECD Test Guideline 407
Remarks	: Based on data from similar materials

### Aspiration toxicity

Based on available data, the classification criteria are not met.

### Further information

#### Product:

Remarks	: The reference to any animal testing for individual constituents mentioned in this document is based on public, third-party data.
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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

#### ALCOHOL:

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 11,200 mg/l Exposure time: 24 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Ceriodaphnia dubia (water flea)): 5,012 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	: NOEC (Danio rerio (zebra fish)): 250 mg/l Exposure time: 5 d Method: OECD Test Guideline 212
Toxicity to daphnia and other	: NOEC (Daphnia magna (Water flea)): 9.6 mg/l

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version 1.0      Revision Date: 2024/08/01      SDS Number: 30-41-400000194932      Date of last issue: -  
Date of first issue: 2024/08/01

aquatic invertebrates (Chronic toxicity)      Exposure time: 10 d

### ETHYLHEXYL SALICYLATE:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 82 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: No toxicity at the limit of solubility.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 10 mg/l  
Exposure time: 48 h  
Method: Regulation (EC) No. 440/2008, Annex, C.2  
Remarks: No toxicity at the limit of solubility.

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 0.011 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: No toxicity at the limit of solubility.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (Daphnia magna (Water flea)): 0.0084 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

### LINALOOL:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 27.8 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 59 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 156.7 mg/l  
Exposure time: 96 h

### LINALYL ACETATE:

Toxicity to fish : LC50 (Fish): 11.14 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 59 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version 1.0      Revision Date: 2024/08/01      SDS Number: 30-41-400000194932      Date of last issue: -  
Date of first issue: 2024/08/01

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 68 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

### **4H-INDEN-4-ONE, 1,2,3,5,6,7-HEXAHYDRO-1,1,2,3,3-PENTAMETHYL-:**

Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): 1.7 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.5 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC10 (Desmodesmus subspicatus (green algae)): 6 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

### **2H-Indeno[4,5-b]furan, decahydro-2,2,6,6,7,8,8-heptamethyl-:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.055 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 203  
Remarks: No toxicity at the limit of solubility.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0.099 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: No toxicity at the limit of solubility.

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): >= 0.093 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: No toxicity at the limit of solubility.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.0341 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211  
Remarks: Based on data from similar materials

M-Factor (Chronic aquatic toxicity) : 1

### **LIMONENE:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0.72 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version 1.0      Revision Date: 2024/08/01      SDS Number: 30-41-400000194932      Date of last issue: -  
Date of first issue: 2024/08/01

- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.307 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.32 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- EC10 (Pseudokirchneriella subcapitata (green algae)): 0.174 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 0.37 mg/l  
Exposure time: 8 d  
Method: OECD Test Guideline 212
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (Daphnia magna (Water flea)): 0.153 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

### Ecotoxicology Assessment

- Acute aquatic toxicity : Very toxic to aquatic life.
- Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

### PROPANEDIOIC ACID, 1-(3,3-DIMETHYLCYCLOHEXYL)ETHYL ETHYL ESTER:

- M-Factor (Acute aquatic toxicity) : 1
- M-Factor (Chronic aquatic toxicity) : 1

### Ecotoxicology Assessment

- Acute aquatic toxicity : Very toxic to aquatic life.
- Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

### TRIMETHYLCYCLOPENTENYL DIMETHYLISOPENTENOL:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.2 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version 1.0      Revision Date: 2024/08/01      SDS Number: 30-41-400000194932      Date of last issue: -  
Date of first issue: 2024/08/01

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 5.71 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.59 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

### Persistence and degradability

#### Components:

##### **ALCOHOL:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 84 %  
Exposure time: 20 d

##### **ETHYLHEXYL SALICYLATE:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 89 %  
Exposure time: 28 d  
Method: Regulation (EC) No. 440/2008, Annex, C.4-E

##### **LINALOOL:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 64 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

##### **LINALYL ACETATE:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 70 - 80 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

##### **4H-INDEN-4-ONE, 1,2,3,5,6,7-HEXAHYDRO-1,1,2,3,3-PENTAMETHYL-:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2024/08/01	30-41-400000194932	Date of first issue: 2024/08/01

Method: OECD Test Guideline 301C

### 2H-Indeno[4,5-b]furan, decahydro-2,2,6,6,7,8,8-heptamethyl-:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 2 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
Remarks: Based on data from similar materials

### LIMONENE:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 71.4 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

### PROPANEDIOIC ACID, 1-(3,3-DIMETHYLCYCLOHEXYL)ETHYL ETHYL ESTER:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 89 %  
Exposure time: 28 d

### TRIMETHYLCYCLOPENTENYL DIMETHYLISOPENTENOL:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C

### Bioaccumulative potential

#### Components:

#### ETHYLHEXYL SALICYLATE:

Bioaccumulation : Bioconcentration factor (BCF): 123.7

Partition coefficient: n-octanol/water : log Pow: 5.94  
pH: 7.8  
Method: OECD Test Guideline 123

#### LINALYL ACETATE:

Bioaccumulation : Bioconcentration factor (BCF): 174

Partition coefficient: n-octanol/water : log Pow: 3.9  
Method: OECD Test Guideline 107

#### 4H-INDEN-4-ONE, 1,2,3,5,6,7-HEXAHYDRO-1,1,2,3,3-PENTAMETHYL-:

Bioaccumulation : Bioconcentration factor (BCF): 81 - 140  
Method: OECD Test Guideline 305

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2024/08/01	30-41-400000194932	Date of first issue: 2024/08/01

Partition coefficient: n-octanol/water : log Pow: 4.2  
Method: OECD Test Guideline 117

### **2H-Indeno[4,5-b]furan, decahydro-2,2,6,6,7,8,8-heptamethyl-:**

Bioaccumulation : Bioconcentration factor (BCF): 1,140.00

Partition coefficient: n-octanol/water : log Pow: 4.42  
pH: 6.4  
Method: OECD Test Guideline 107

### **LIMONENE:**

Partition coefficient: n-octanol/water : log Pow: 4.28  
pH: 7.2  
Method: OECD Test Guideline 117

### **TRIMETHYLCYCLOPENTENYL DIMETHYLISOPENTENOL:**

Bioaccumulation : Bioconcentration factor (BCF): 46 - 60  
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 4.989  
pH: 4.95 - 8.5  
Method: OECD Test Guideline 123

### **Mobility in soil**

No data available

### **Other adverse effects**

#### **Product:**

Additional ecological information : The reference to any animal testing for individual constituents mentioned in this document is based on public, third-party data.

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## 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Send to a licensed waste management company.

Contaminated packaging : Dispose of as unused product.  
Do not reuse empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version 1.0      Revision Date: 2024/08/01      SDS Number: 30-41-400000194932      Date of last issue: -  
Date of first issue: 2024/08/01

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### 14. TRANSPORT INFORMATION

#### Domestic regulation

##### GB 6944/12268

UN number : UN 1266  
Proper shipping name : PERFUMERY PRODUCTS  
Class : 3  
Packing group : II  
Labels : 3  
Marine pollutant : no

#### International Regulations

##### IATA-DGR

UN/ID No. : UN 1266  
Proper shipping name : Perfumery products  
Class : 3  
Packing group : II  
Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 364  
Packing instruction (passenger aircraft) : 353

##### IMDG-Code

UN number : UN 1266  
Proper shipping name : PERFUMERY PRODUCTS  
Class : 3  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-D  
Marine pollutant : no

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### Special precautions for user

Remarks : Materials packaged as a finished good may be offered as ID8000, Consumer Commodity by IATA.  
Materials may be offered as a limited quantity when in containers of 5 liters or less, except for IATA.

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2024/08/01	30-41-400000194932	Date of first issue: 2024/08/01

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### 15. REGULATORY INFORMATION

#### National regulatory information

##### Regulations on Safety Management of Hazardous Chemicals

Catalogue of Hazardous Chemicals : Listed

##### Measures on the Environmental Administration of New Chemical Substances Registration

Registration/Notification number :

- 01-2119977131-40
- 01-2119977131-40
- 01-2120103324-74
- 01-2119457274-37
- 01-2119454789-1
- 01-0000000316-81
- 01-2119956812-31
- 01-2119552430-49
- 01-2120115888-46
- 01-2119967408-25
- 01-2119444321-51
- 01-2120099636-40
- 01-2119457610-43
- 01-21200119382-64
- 01-2120102843-65
- 01-2119978235-29
- 01-2120780478-40
- 01-2119970713-33
- 01-2119519223-49
- 01-2119449921-34
- 01-2119449921-34
- 01-2119474016-42
- 01-2120741268-52
- 01-2119987320-37
- 01-2119529223-47
- 01-2119462829-23
- 01-0000018977-51
- 01-0000018977-51
- 01-2120762759-36
- 01-2119967772-24
- 01-2119967772-24

Downstream users need to comply with the conditions of safe use of the chemical, understand the environmental and health hazard and risk management measures identified on the SDS as well as the local/national regulations concerning the chemical.

#### Yangtze River Protection Law

This product does not contain any dangerous chemicals prohibited for inland river transport.

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2024/08/01	30-41-400000194932	Date of first issue: 2024/08/01

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### 16. OTHER INFORMATION

Revision Date : 2024/08/01

#### Further information

Other information : 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.

Date format : yyyy/mm/dd

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH / STEL : Short-term exposure limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECl - Thailand

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## GUY LAROCHE DRAKKAR BLEU EAU DE PARFUM

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2024/08/01	30-41- 400000194932	Date of first issue: 2024/08/01

Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

### Disclaimer

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