

# SAFETY DATA SHEET

## CRYSTAL ROSE

### [x] 1 Identification of the substance/mixture and the company/business

#### 1.1 Product identifier

### CRYSTAL ROSE

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

Perfume composition, flavor, aromatic ingredient, or blends of food additives and ingredients, for industrial use, which may be used in end-user products

#### 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

Ireland	
Organisation/company	: National Poisons Information Centre Beaumont Hospital
Address	: PO Box 1297 Beaumont Road 9 Dublin
Emergency number	: +353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am-10pm, 7/7)

## 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

CLASSIFICATION ACCORDING Reg. 1272/2008/CE

#### Physical hazards

No hazard specified.

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### **Health Dangers**

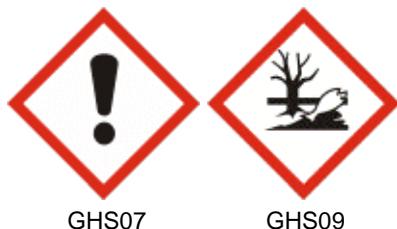
Skin irrit. 2: Causes skin irritation.

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

### **Environmental hazards**

Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

## **2.2 Label elements**



### **WARNING**

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H411: Toxic to aquatic life with long lasting effects.

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

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

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

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

P391: Collect spillage.

EUH208: Contains GERANYLE ACETATE, GERANIOL, trans-ANETHOLE, NERYL ACETATE, DIMETHYL CYCLOHEXENE CARBOXALDEHYDE, 1-FORMYL-4-ISOHEXENYL-4-CYCLOHEXENE, (-) TRANS BETA CARYOPHYLLENE, NEROL, TRIMETHYL CYCLOHEXYL-3-HEXANOL, BENZYL ALCOHOL, EUCALYPTOL, Beta PINENE, Alpha PINENE, alpha-ISOMETHYL IONONE, CINNAMALDEHYDE, ISOEUGENOL. 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.

## **[x] 3 COMPOSITION / INFORMATION ON INGREDIENTS**

### **3.1 Substances**

**CAS-No.:**Not applicable

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### 3.2 Mixtures

## Hazardous Substances

Component	CAS number REACH number Index number	Concentration limit	CLASSIFICATION ACCORDING Reg. 1272/2008/CE	Other hazard information
D-LIMONENE	5989-27-5  601-096-00-2	[5 % , 10 %[	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
LINALOOL	78-70-6  603-235-00-2	[5 % , 10 %[	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 2790 mg/kg CL50 Inhalation - vapor > 100 mg/l
HEXYL CINNAMAL	101-86-0  01-2119533092-50-XXXX	[5 % , 10 %[	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
LINALYL ACETATE	115-95-7	[1 % , 5 %[	Skin irrit. 2, H315 Skin Sens. 1, H317	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral > 5000 mg/kg CL50 Inhalation - vapor > 100 mg/l
BENZYL ACETATE	140-11-4	[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 2490 mg/kg
HHCB	1222-05-5  01-2119488227-29-XXXX  603-212-00-7	[1 % , 5 %[	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M factor: 1 SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg CL50 Inhalation - vapor > 100 mg/l LD50 Oral > 5000 mg/kg
COUMARIN	91-64-5	[1 % , 5 %[	Acute Tox. 4 Oral, H302 Skin Sens. 1B, H317	M factor: Not applicable SCL: Not applicable

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Component	CAS number REACH number Index number	Concentration limit	CLASSIFICATION ACCORDING Reg. 1272/2008/CE	Other hazard information
				ATE: LD50 Dermal > 5000 mg/kg LD50 Oral 500 mg/kg CL50 Inhalation - vapor > 100 mg/l
OCTAHYDRO TETRAMETHYL ACETONAPHTONE	54464-57-2 01-2119489989-04-XXXX	[1 % , 5 %[	Skin irrit. 2, H315 Skin Sens. 1B, H317 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
ACETYL CEDRENE	32388-55-9 01-2119969651-28-XXXX	[1 % , 5 %[	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 4500 mg/kg CL50 Inhalation - vapor > 100 mg/l
ISOBUTYLHYDROXYMETH. TETRAHYDROPYRAN	63500-71-0 01-2119455547-30-XXXX 603-101-00-3	[1 % , 5 %[	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
CITRONELLOL	106-22-9	[1 % , 5 %[	Skin irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal 2650 mg/kg LD50 Oral 3450 mg/kg CL50 Inhalation - vapor > 100 mg/l
ACETATE DE VERDYLE	54830-99-8 01-2119488219-26-XXXX	[0.1 % , 1 %[	Aquatic Chronic 1, H410	M factor: 1 SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg CL50 Inhalation - vapor > 100 mg/l LD50 Oral 2750 mg/kg
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

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Component	CAS number REACH number Index number	Concentration limit	CLASSIFICATION ACCORDING Reg. 1272/2008/CE	Other hazard information
<b>GERANIOL</b>	106-24-1	[0.1 % , 1 %[	Skin irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral 3600 mg/kg CL50 Inhalation - vapor > 100 mg/l
<b>ISOBORNYL CYCLOHEXANOL</b>	3407-42-9 01-2119979583-21-XXXX	[0.1 % , 1 %[	Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M factor: 1 SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral > 5000 mg/kg CL50 Inhalation - vapor > 100 mg/l
<b>trans-ANETHOLE</b>	4180-23-8	[0.1 % , 1 %[	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral 3000 mg/kg CL50 Inhalation - vapor > 100 mg/l
<b>NERYL ACETATE</b>	141-12-8	[0.1 % , 1 %[	Skin Sens. 1B, H317	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral > 5000 mg/kg CL50 Inhalation - vapor > 100 mg/l
<b>DIMETHYL CYCLOHEXENE CARBOXALDEHYDE</b>	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
<b>1-FORMYL-4-ISOHEXENYL-4-CYCLOHEXENE</b>	37677-14-8 01-2120769662-44-XXXX	[0.1 % , 1 %[	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Dam. 1, H318 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
<b>ALLYL ISOAMYLGLYCOLATE</b>	67634-00-8 01-2120794630-50-XXXX	[0.1 % , 1 %[	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

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Component	CAS number REACH number Index number	Concentration limit	CLASSIFICATION ACCORDING Reg. 1272/2008/CE	Other hazard information
				CL50 Inhalation - vapor 0.5000 mg/l
MYRCENE	123-35-3	[0.1 % , 1 %[	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Eye Irrit. 2, H319 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 > 5000 mg/kg
(-) TRANS BETA CARYOPHYLLENE	87-44-5	[0.1 % , 1 %[	Asp. Tox. 1, H304 Skin Sens. 1B, H317	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral > 5000 mg/kg CL50 Inhalation - vapor > 100 mg/l
NEROL	106-25-2	[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 4500 mg/kg CL50 Inhalation - vapor > 100 mg/l
2-Octynoic acid, methyl ester	111-12-6 01-2120734167-55-XXXX	[0.1 % , 1 %[	Skin Sens. 1A, 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
TRIMETHYL CYCLOHEXYL-3- HEXANOL	70788-30-6 01-2120768938-30-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 > 5000 mg/kg CL50 Inhalation - vapor > 100 mg/l
ALLYL HEPTANOATE	142-19-8 01-2119488961-23-XXXX	[0.1 % , 1 %[	Acute Tox. 3 Oral, H301 Acute Tox. 3 Dermale, H311 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M factor: 10 SCL: Not applicable ATE: LD50 Dermal 810 mg/kg LD50 Oral 218 mg/kg CL50 Inhalation - vapor > 100 mg/l
BENZYL ALCOHOL	100-51-6	[0.1 % , 1 %[	Acute Tox. 4 Oral, H302 Skin Sens. 1B, H317	M factor: Not applicable SCL: Not applicable

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Component	CAS number REACH number Index number	Concentration limit	CLASSIFICATION ACCORDING Reg. 1272/2008/CE	Other hazard information
	603-057-00-5		Eye Irrit. 2, H319	ATE: LD50 Dermal > 5000 mg/kg LD50 Oral 1200 mg/kg CL50 Inhalation - vapor > 100 mg/l
EUCALYPTOL	470-82-6	[0.1 % , 1 %[	Flam. Liq. 3, H226 Skin Sens. 1B, H317	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral 2480 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
Alpha PINENE	80-56-8	[0.1 % , 1 %[	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 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 500 mg/kg CL50 Inhalation - vapor > 100 mg/l
alpha-ISOMETHYL IONONE	127-51-5 01-2120138569-45-XXXX	[0.1 % , 1 %[	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 > 100 mg/l
CINNAMALDEHYDE	104-55-2 606-155-00-6	[0 % , 0.1 %[	EUH 208 SKIN, EUH208 Acute Tox. 4 Dermale, H312 Skin irrit. 2, H315 Skin Sens. 1A, H317 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	M factor: Not applicable SCL: Skin Sens. 1A-.01%, EUH 208 SKIN-.001% ATE: LD50 Dermal 1260 mg/kg CL50 Inhalation - vapor > 100 mg/l LD50 Oral 2220 mg/kg
ISOEUGENOL	97-54-1 604-094-00-X	[0 % , 0.1 %[	EUH 208 SKIN, EUH208 Acute Tox. 4 Oral, H302 Acute Tox. 4 Dermale, H312 Skin irrit. 2, H315 Skin Sens. 1A, H317 Eye Irrit. 2, H319	M factor: Not applicable SCL: Skin Sens. 1-.01%, EUH 208 SKIN-.001% ATE: LD50 Dermal 1912 mg/kg CL50 Inhalation - vapor 11 mg/l

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Component	CAS number REACH number Index number	Concentration limit	CLASSIFICATION ACCORDING Reg. 1272/2008/CE	Other hazard information
			Acute Tox. 4 Inhalation, H332 STOT SE 3 (RI), H335	LD50 Oral 1500 mg/kg

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.

### 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, CO<sub>2</sub> 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

### 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.

## [x] 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Occupational exposure limits

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**National OELs values**

Component	CAS	Concentration limit	VLEP-8h (mg/m3)
PROPANOL, 2-METHOXYMETHYLETHOXY	34590-94-8	[20 % , 50 %[	ARGENTINA: None BRAZIL: None CHINA: 600 GERMANY: 310 FRANCE: 308 INDONESIA: 606 JAPAN: 100 (ACGIH) POLAND: 240 UNITED STATES OF AMERICA: 100 (ACGIH) - 100 (NIOSH)
D-LIMONENE	5989-27-5	[5 % , 10 %[	ARGENTINA: None BRAZIL: None CHINA: None GERMANY: 28 FRANCE: None INDONESIA: None JAPAN: None POLAND: None UNITED STATES OF AMERICA: 30 (AIHA)
BENZYL ACETATE	140-11-4	[1 % , 5 %[	ARGENTINA: None BRAZIL: None CHINA: None GERMANY: None FRANCE: None INDONESIA: 61 JAPAN: 10 (ACGIH) POLAND: None UNITED STATES OF AMERICA: 10 (ACGIH)
DIPROPYLENE GLYCOL	25265-71-8	[1 % , 5 %[	ARGENTINA: None BRAZIL: None CHINA: None GERMANY: 100 FRANCE: None INDONESIA: None JAPAN: None POLAND: None UNITED STATES OF AMERICA: None

**European Indicative OELs values**

None

**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:

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 > or = 0.2 mm.

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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: 0.23 mmHg
- Vapor Density: No data available.
- Specific Gravity: 0.9483 / 0.9583
- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.

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- 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**

No data available.

### **10.6 Hazardous decomposition products**

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No data available.

## [x] 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)	4427.8 (Unknown: 0%) (Calculated)
LC50 - Inhalation - vapor(mg/l)	> 100 (Unknown: 0%) (Calculated)

## Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
D-LIMONENE	5989-27-5	[5 % , 10 %[	> 5000 Estimated	> 5000 Estimated	> 100 Estimated
LINALOOL	78-70-6	[5 % , 10 %[	> 5000 Measured	2790 Measured	> 100 Estimated
HEXYL CINNAMAL	101-86-0	[5 % , 10 %[	> 5000 Estimated	3100 Estimated	> 100 Estimated
LINALYL ACETATE	115-95-7	[1 % , 5 %[	> 5000 Estimated	> 5000 Estimated	> 100 Estimated
COUMARIN	91-64-5	[1 % , 5 %[	> 5000 Estimated	500 Estimated	> 100 Estimated
OCTAHYDRO TETRAMETHYL ACETONAPHTONE	54464-57-2	[1 % , 5 %[	> 5000 Estimated	> 5000 Estimated	> 100 Estimated
ACETYL CEDRENE	32388-55-9	[1 % , 5 %[	> 5000 Estimated	4500 Measured	> 100 Estimated
ISOBUTYLHYDROXYMETH. TETRAHYDROPYRAN	63500-71-0	[1 % , 5 %[	> 5000 Estimated	> 5000 Estimated	> 100 Estimated
CITRONELLOL	106-22-9	[1 % , 5 %[	2650 Estimated	3450 Estimated	> 100 Estimated
GERANYLE ACETATE	105-87-3	[0.1 % , 1 %[	> 5000 Estimated	> 5000 Estimated	> 100 Estimated
GERANIOL	106-24-1	[0.1 % , 1 %[	> 5000 Estimated	3600 Estimated	> 100 Estimated
ISOBORNYL CYCLOHEXANOL	3407-42-9	[0.1 % , 1 %[	> 5000 Estimated	> 5000 Estimated	> 100 Estimated
trans-ANETHOLE	4180-23-8	[0.1 % , 1 %[	> 5000 Estimated	3000 Estimated	> 100 Estimated
NERYL ACETATE	141-12-8	[0.1 % , 1 %[	> 5000 Estimated	> 5000 Estimated	> 100 Estimated
1-FORMYL-4-ISOHEXENYL-4-CYCLOHEXENE	37677-14-8	[0.1 % , 1 %[	> 5000 Estimated	> 5000 Estimated	> 100 Estimated
DIMETHYL CYCLOHEXENE CARBOXALDEHYDE	68039-49-6	[0.1 % , 1 %[	> 5000 Estimated	2330 Measured	> 100 Estimated
ALLYL ISOAMYLGLYCOLATE	67634-00-8	[0.1 % , 1 %[	> 5000 Estimated	730 Estimated	0.5000 Estimated
(-) TRANS BETA CARYOPHYLLENE	87-44-5	[0.1 % , 1 %[	> 5000 Estimated	> 5000 Estimated	> 100 Estimated

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NEROL	106-25-2	[0.1 % , 1 %[	> 5000 Estimated	4500 Measured	> 100 Estimated
TRIMETHYL CYCLOHEXYL-3-HEXANOL	70788-30-6	[0.1 % , 1 %[	> 5000 Estimated	> 5000 Estimated	> 100 Estimated
ALLYL HEPTANOATE	142-19-8	[0.1 % , 1 %[	810 Measured	218 Measured	> 100 Estimated
2-Octynoic acid, methyl ester	111-12-6	[0.1 % , 1 %[	> 5000 Estimated	> 5000 Estimated	> 100 Estimated
BENZYL ALCOHOL	100-51-6	[0.1 % , 1 %[	> 5000 Estimated	1200 Measured	> 100 Estimated
EUCALYPTOL	470-82-6	[0.1 % , 1 %[	> 5000 Estimated	2480 Estimated	> 100 Estimated
Beta PINENE	127-91-3	[0.1 % , 1 %[	> 5000 Estimated	> 5000 Estimated	> 100 Estimated
Alpha PINENE	80-56-8	[0.1 % , 1 %[	> 5000 Estimated	500 Estimated	> 100 Estimated
alpha-ISOMETHYL IONONE	127-51-5	[0.1 % , 1 %[	> 5000 Estimated	> 5000 Estimated	> 100 Estimated

Serious eye damage/irritation : No data available.

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

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No data available.

### **11.2 Endocrine disrupting properties**

**Properties interfering with the endocrine system**

Not applicable

**Other information**

No data available.

## **[x] 12 ECOLOGICAL INFORMATION**

### **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.

## CRYSTAL ROSE



### 12.6 Endocrine disrupting properties

#### Properties interfering with the endocrine system

Not applicable

#### Other information

No data available.

### 12.7 Other adverse effects

No data available.

## 13 DISPOSAL CONSIDERATIONS

### 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

UN number	: 3082
Transportation name	United Nations
Danger class(es) for transport	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERFUMERY PRODUCTS)
Packaging group	: Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND ARTICLES
Environmental dangers	: III
Tunnel restriction code	: Yes.

### IATA

UN number	: 3082
Transportation name	United Nations
Danger class(es) for transport	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERFUMERY PRODUCTS)
Packaging group	: Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND ARTICLES
Environmental dangers	: III

### IMDG

UN number	: 3082
Transportation name	United Nations

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### RID

Danger class(es) for transport	( PERFUMERY PRODUCTS ) POLLUTANT
	: Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND ARTICLES
Packaging group	: III
Environmental dangers	: Yes.
Marine pollutants	: P - pollutant
UN number	: 3082
Transportation name United Nations	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( PERFUMERY PRODUCTS )
Danger class(es) for transport	: Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND ARTICLES
Packaging group	: III
Environmental dangers	: Yes.
Tunnel restriction code	: -

### 14.1 Special precautions for user

No recommendation given.

## [x] 15 Regulatory information

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

Water Hazard Class (WGK): WGK 3 (Severe hazard to water)

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): 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.

## [x] 16 OTHER INFORMATION

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

EUH208

Contains #. May produce an allergic reaction.

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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.
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.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

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

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

P391: Collect spillage.

## 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 Dermale	: Acute toxicity Category 3 Dermal
Acute Tox. 4 Dermale	: Acute toxicity Category 4 Dermal
Acute Tox. 2 Inhalation	: Acute toxicity Category 2 Inhalation
Acute Tox. 4 Inhalation	: Acute toxicity Category 4 Inhalation
Acute Tox. 3 Oral	: Acute toxicity Category 3 Oral
Acute Tox. 4 Oral	: Acute toxicity Category 4 Oral
Aquatic Acute 1	: Acute hazards to the aquatic environment Category 1

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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
EUH 208 SKIN	:	
Eye Dam. 1	:	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	:	Serious eye damage/eye irritation 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. 1A	:	Skin sensitizer Category 1A
Skin Sens. 1B	:	Skin sensitizer Category 1B
STOT SE 3 (RI)	:	Specific target organ toxicity - single exposure Category 3 Respiratory Tract

### **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.**

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