



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.

Issue date 16 SEP 2025

Version 2
Model 8



SAFETY DATA SHEET

CRYSTAL ROSE

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



GHS07



GHS09

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

SAFETY DATA SHEET

CRYSTAL ROSE

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 |

SAFETY DATA SHEET

CRYSTAL ROSE

| 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 |

SAFETY DATA SHEET

CRYSTAL ROSE

| Component | CAS number REACH number Index number | Concentration limit | CLASSIFICATION ACCORDING Reg. 1272/2008/CE | Other hazard information |
|--|--|------------------------|--|--|
| GERANIOL | 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 |
| ISOBORNYL CYCLOHEXANOL | 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 |
| trans-ANETHOLE | 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 |
| NERYL ACETATE | 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 |
| DIMETHYL CYCLOHEXENE CARBOXALDEHYDE | 68039-49-6 01-2119982384-28-XXXX | [0.1 % , 1 %] | Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411 | M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral 2330 mg/kg CL50 Inhalation - vapor > 100 mg/l |
| 1-FORMYL-4-ISOHEXENYL-4-CYCLOHEXENE | 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 |
| ALLYL ISOAMYLGLYCOLATE | 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 |

SAFETY DATA SHEET

CRYSTAL ROSE

| 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 Dermal, 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 |

SAFETY DATA SHEET

CRYSTAL ROSE

| 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 Dermal, 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 Dermal, 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 |



SAFETY DATA SHEET

CRYSTAL ROSE

| 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, CO2 or Foam

Extinguishing media to avoid

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

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.

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

5.3 Advice for firefighters

No specific precautions.



SAFETY DATA SHEET

CRYSTAL ROSE

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

SAFETY DATA SHEET

CRYSTAL ROSE

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.

CRYSTAL ROSE



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.



SAFETY DATA SHEET

CRYSTAL ROSE

- 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



SAFETY DATA SHEET

CRYSTAL ROSE

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

SAFETY DATA SHEET

CRYSTAL ROSE

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

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



SAFETY DATA SHEET

CRYSTAL ROSE

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.



SAFETY DATA SHEET

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 | : 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 | : - |

IATA

| | |
|------------------------------------|--|
| 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. |

IMDG

| | |
|------------------------------------|---|
| UN number | : 3082 |
| Transportation name United Nations | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |



SAFETY DATA SHEET

CRYSTAL ROSE

| | |
|--------------------------------|---|
| 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 |

RID

| | |
|------------------------------------|--|
| 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. |
|--------|---|

SAFETY DATA SHEET

CRYSTAL ROSE

| | |
|------|---|
| 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 Dermal | : Acute toxicity Category 3 Dermal |
| Acute Tox. 4 Dermal | : 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 |

CRYSTAL ROSE



| | |
|-------------------|---|
| 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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