

## Safety data sheet

Page: 1/19

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 05.08.2022

Version: 10.1

Date previous version: 23.12.2021

Previous version: 10.0

Date / First version: 12.04.2002

Product: **Caramba®**

(ID no. 30271117/SDS\_CPA\_EU/EN)

Date of print 24.04.2025

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Caramba®**

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

Relevant identified uses: crop protection product, fungicide

#### 1.3. Details of the supplier of the safety data sheet

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Crop Protection

Telephone: +49 621 60-27777

E-mail address: Produktinformation-Pflanzenschutz@basf.com

#### 1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 05.08.2022

Version: 10.1

Date previous version: 23.12.2021

Previous version: 10.0

Date / First version: 12.04.2002

Product: **Caramba®**

(ID no. 30271117/SDS\_CPA\_EU/EN)

Date of print 24.04.2025

## SECTION 2: Hazards Identification

### 2.1. Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

According to Regulation (EC) No 1272/2008 [CLP]

Asp. Tox. 1	H304 May be fatal if swallowed and enters airways.
Flam. Liq. 3	H226 Flammable liquid and vapour.
Skin Corr./Irrit. 2	H315 Causes skin irritation.
Eye Dam./Irrit. 1	H318 Causes serious eye damage.
Skin Sens. 1	H317 May cause an allergic skin reaction.
Repr. 2	H361d Suspected of damaging the unborn child.
STOT SE 3	H335 May cause respiratory irritation.
Aquatic Acute 1	H400 Very toxic to aquatic life.
Aquatic Chronic 1	H410 Very toxic to aquatic life with long lasting effects.

For the classifications not written out in full in this section the full text can be found in section 16.

### 2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Pictogram:



Signal Word:

Danger

Hazard Statement:

H226	Flammable liquid and vapour.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H304	May be fatal if swallowed and enters airways.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary Statement:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 05.08.2022

Version: 10.1

Date previous version: 23.12.2021

Previous version: 10.0

Date / First version: 12.04.2002

Product: **Caramba®**

(ID no. 30271117/SDS\_CPA\_EU/EN)

Date of print 24.04.2025

#### Precautionary Statements (Prevention):

- |      |  |
|------|--|
| P280 | Wear protective gloves, protective clothing and eye protection or face protection.             |
| P271 | Use only outdoors or in a well-ventilated area.  |
| P261 | Avoid breathing mist or vapour or spray.   |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P243 | Take action to prevent static discharges.  |
| P201 | Obtain special instructions before use.  |
| P241 | Use explosion-proof electrical, ventilating and lighting equipment.                            |
| P202 | Do not handle until all safety precautions have been read and understood.                      |
| P272 | Contaminated work clothing should not be allowed out of the workplace.                         |
| P240 | Ground and bond container and receiving equipment.   |
| P242 | Use only non-sparking tools.   |
| P264 | Wash contaminated body parts thoroughly after handling.  |

#### Precautionary Statements (Response):

- |                    |  |
|--------------------|--|
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310               | Immediately call a POISON CENTER or physician.   |
| P303 + P361 + P353 | IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower.                 |
| P304 + P340        | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P391               | Collect spillage.  |
| P308 + P313        | IF exposed or concerned: Get medical attention.  |
| P362 + P364        | Take off contaminated clothing and wash it before reuse.   |
| P331               | Do NOT induce vomiting.  |
| P370 + P378        | In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction.   |

#### Precautionary Statements (Storage):

- |             |  |
|-------------|--|
| P403 + P235 | Store in a well-ventilated place. Keep cool. |
| P233        | Keep container tightly closed.               |
| P405        | Store locked up.                             |

#### Precautionary Statements (Disposal):

- |      |   |
|------|---|
| P501 | Dispose of contents and container to hazardous or special waste collection point. |
|------|---|

Hazard determining component(s) for labelling: metconazole (ISO); (1RS, 5RS;1RS, 5SR)-5-(4-chlorobenzyl)-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol, 1-pentanol, Hydrocarbons, C10 - C12, isoalkanes, <2% aromatic, Alcohols, C9-11, ethoxylated

### 2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

See section 12 - Results of PBT and vPvB assessment.

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 05.08.2022

Version: 10.1

Date previous version: 23.12.2021

Previous version: 10.0

Date / First version: 12.04.2002

Product: **Caramba®**

(ID no. 30271117/SDS\_CPA\_EU/EN)

Date of print 24.04.2025

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture. Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

#### Chemical nature

crop protection product, fungicide, Emulsifiable concentrate (EC)

#### Regulatory relevant ingredients

metconazole (ISO); (1RS, 5RS;1RS, 5SR)-5-(4-chlorobenzyl)-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol

Content (W/W): 6.8 %

Acute Tox. 4 (oral)

CAS Number: 125116-23-6

Repr. 2 (unborn child)

INDEX-Number: 613-284-00-1

Aquatic Chronic 2

H302, H361d, H411

Differing classification according to current knowledge and the criteria given in Annex I of Regulation (EC) No. 1272/2008 Acute Tox. 4 (oral)

Repr. 2 (unborn child)

Aquatic Acute 1

Aquatic Chronic 1

Alcohols, C9-11, ethoxylated

Content (W/W): < 50 %

Acute Tox. 4 (oral)

CAS Number: 68439-46-3

Eye Dam./Irrit. 1

H318, H302

Hydrocarbons, C10 - C12, isoalkanes, <2% aromatic

Content (W/W): < 25 %

Asp. Tox. 1

REACH registration number: 01-2119471991-29

Flam. Liq. 3

Aquatic Chronic 2

H226, H304, H411, EUH066

1-pentanol

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 05.08.2022

Version: 10.1

Date previous version: 23.12.2021

Previous version: 10.0

Date / First version: 12.04.2002

Product: **Caramba®**

(ID no. 30271117/SDS\_CPA\_EU/EN)

Date of print 24.04.2025

Content (W/W): < 20 %  
CAS Number: 71-41-0  
EC-Number: 200-752-1  
REACH registration number: 01-2119491284-34  
INDEX-Number: 603-200-00-1

Flam. Liq. 3  
Acute Tox. 4 (Inhalation - vapour)  
Skin Corr./Irrit. 2  
Eye Dam./Irrit. 1  
STOT SE 3 (irr. to respiratory syst.)  
H226, H318, H315, H332, H335

#### 2-Methylbutan-1-ol

Content (W/W): < 10 %  
CAS Number: 137-32-6  
EC-Number: 205-289-9  
REACH registration number: 01-2119492592-30  
INDEX-Number: 603-006-00-7

Flam. Liq. 3  
Acute Tox. 4 (Inhalation - vapour)  
Skin Corr./Irrit. 2  
Eye Dam./Irrit. 1  
STOT SE 3 (irr. to respiratory syst.)  
H226, H318, H315, H332, H335  
EUH066

#### 3-Methylbutan-1-ol

Content (W/W): < 5 %  
CAS Number: 123-51-3  
EC-Number: 204-633-5  
REACH registration number: 01-2119493725-26

Flam. Liq. 3  
Acute Tox. 4 (Inhalation - vapour)  
Skin Corr./Irrit. 2  
Eye Dam./Irrit. 1  
STOT SE 3 (irr. to respiratory syst.)  
H226, H318, H315, H332, H335  
EUH066

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

## SECTION 4: First-Aid Measures

### 4.1. Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

On skin contact:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 05.08.2022

Version: 10.1

Date previous version: 23.12.2021

Previous version: 10.0

Date / First version: 12.04.2002

Product: **Caramba®**

(ID no. 30271117/SDS\_CPA\_EU/EN)

Date of print 24.04.2025

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Do not induce vomiting due to aspiration hazard.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

---

### **SECTION 5: Fire-Fighting Measures**

#### **5.1. Extinguishing media**

Suitable extinguishing media:

water spray, foam, dry powder, carbon dioxide

#### **5.2. Special hazards arising from the substance or mixture**

Endangering substances: carbon monoxide, hydrogen chloride, Carbon dioxide, nitrogen oxides, halogenated compounds

Advice: The substances/groups of substances mentioned can be released in case of fire.

#### **5.3. Advice for fire-fighters**

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

---

### **SECTION 6: Accidental Release Measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 05.08.2022

Version: 10.1

Date previous version: 23.12.2021

Previous version: 10.0

Date / First version: 12.04.2002

Product: **Caramba®**

(ID no. 30271117/SDS\_CPA\_EU/EN)

Date of print 24.04.2025

## 6.2. Environmental precautions

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

## 6.3. Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Wear suitable protective equipment.

## 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

---

# SECTION 7: Handling and Storage

## 7.1. Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

Vapours may form ignitable mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

## 7.2. Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Storage stability:

Storage duration: 60 Months

Protect from temperatures below: 0 °C

The product crystallizes below the limit temperature.

Protect from temperatures above: 30 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

## 7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 05.08.2022

Version: 10.1

Date previous version: 23.12.2021

Previous version: 10.0

Date / First version: 12.04.2002

Product: **Caramba®**

(ID no. 30271117/SDS\_CPA\_EU/EN)

Date of print 24.04.2025

---

## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

Components with occupational exposure limits

71-41-0: 1-pentanol

123-51-3: 3-Methylbutan-1-ol

STEL value 37 mg/m<sup>3</sup> ; 10 ppm (OEL (EU))

indicative

TWA value 18 mg/m<sup>3</sup> ; 5 ppm (OEL (EU))

indicative

137-32-6: 2-Methylbutan-1-ol

125116-23-6: metconazole (ISO)

### 8.2. Exposure controls

#### Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles (e. g. EN 14387 Type ABEK-P3)

Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### General safety and hygiene measures

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

---

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

State of matter: liquid

Form: liquid



BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 05.08.2022

Version: 10.1

Date previous version: 23.12.2021

Previous version: 10.0

Date / First version: 12.04.2002

Product: **Caramba®**

(ID no. 30271117/SDS\_CPA\_EU/EN)

Date of print 24.04.2025

Colour:	colourless	
Odour:	characteristic	
Odour threshold:	Not determined due to potential health hazard by inhalation.	
Melting point:	approx. < -30 °C	
Boiling range:	Information applies to the solvent.	
Lower explosion limit:	approx. 172 - 185 °C	
Upper explosion limit:	Information applies to the solvent.	
Flash point:	0.6 %(V)	
Auto-ignition temperature:	Information applies to the solvent.	
Thermal decomposition:	8 %(V)	
pH value:	41 °C	(Directive 92/69/EEC, A.9)
Viscosity, kinematic:	330 °C	(Regulation 440/2008/EC, A.15)
Viscosity, dynamic:	280 °C, 430 kJ/kg (DSC (OECD 113))	
Solubility in water:	(onset temperature)	
Partitioning coefficient n-octanol/water (log Kow):	Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.	
Vapour pressure:	approx. 5.5 - 7.5	(pH Meter)
Density:	(water, 1 %(m), 20 °C)	
Relative vapour density (air):	approx. 6 mm <sup>2</sup> /s	(measured)
	(40 °C)	
	approx. 5.3 mPa.s	
	(40 °C)	
	emulsifiable	
	not applicable	
	approx. 160 Pa	
	(20 °C)	
	Information applies to the solvent.	
	approx. 0.89 g/cm <sup>3</sup>	
	(20 °C)	
	not applicable	

## 9.2. Other information

### Information with regard to physical hazard classes

#### Explosives

Explosion hazard: not explosive (Regulation 440/2008/EC, A.14)

#### Oxidizing properties

Fire promoting properties: not fire-propagating (Regulation 440/2008/EC, A.21)

### Other safety characteristics

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 05.08.2022

Version: 10.1

Date previous version: 23.12.2021

Previous version: 10.0

Date / First version: 12.04.2002

Product: **Caramba®**

(ID no. 30271117/SDS\_CPA\_EU/EN)

Date of print 24.04.2025

Other Information: If necessary, information on other physical and chemical parameters is indicated in this section.

Evaporation rate: not applicable

---

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

### 10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### 10.3. Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

### 10.4. Conditions to avoid

See SDS section 7 - Handling and storage.

### 10.5. Incompatible materials

Substances to avoid:  
strong oxidizing agents, strong bases, strong acids

### 10.6. Hazardous decomposition products

Hazardous decomposition products:  
No hazardous decomposition products if stored and handled as prescribed/indicated.

---

## SECTION 11: Toxicological Information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Assessment of acute toxicity:  
Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Experimental/calculated data:  
LD50 rat (oral): 2,601 mg/kg (OECD Guideline 401)

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 05.08.2022

Version: 10.1

Date previous version: 23.12.2021

Previous version: 10.0

Date / First version: 12.04.2002

Product: **Caramba®**

(ID no. 30271117/SDS\_CPA\_EU/EN)

Date of print 24.04.2025

LC50 rat (by inhalation): 5.3 mg/l 4 h (OECD Guideline 403)  
An aerosol was tested.

LD50 rat (dermal): > 4,000 mg/kg (OECD Guideline 402)  
No mortality was observed.

### Irritation

Assessment of irritating effects:  
Skin contact causes irritation. May cause severe damage to the eyes.

Experimental/calculated data:  
Skin corrosion/irritation  
rabbit: Irritant. (OECD Guideline 404)

Serious eye damage/irritation  
rabbit: Risk of serious damage to eyes. (OECD Guideline 405)

### Respiratory/Skin sensitization

Assessment of sensitization:  
Sensitization after skin contact possible.

Experimental/calculated data:  
Guinea pig maximization test guinea pig: sensitizing (Guideline 92/69/EEC, B.6)

### Germ cell mutagenicity

Assessment of mutagenicity:  
The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

### Carcinogenicity

Assessment of carcinogenicity:  
The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: metconazole (ISO); (1RS, 5RS;1RS, 5SR)-5-(4-chlorobenzyl)-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol*

*Assessment of carcinogenicity:*

*In long-term studies in rodents exposed to high doses, a tumorigenic effect was found; however, these results are thought to be due to a rodent-specific liver effect that is not relevant to humans.*

-----

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 05.08.2022

Version: 10.1

Date previous version: 23.12.2021

Previous version: 10.0

Date / First version: 12.04.2002

Product: **Caramba®**

(ID no. 30271117/SDS\_CPA\_EU/EN)

Date of print 24.04.2025

### Reproductive toxicity

Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

### Developmental toxicity

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: metconazole (ISO); (1RS, 5RS;1RS, 5SR)-5-(4-chlorobenzyl)-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol*

*Assessment of teratogenicity:*

*Indications of possible developmental toxicity/teratogenicity were seen in animal studies.*

### Specific target organ toxicity (single exposure)

Assessment of STOT single:

Causes temporary irritation of the respiratory tract.

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: metconazole (ISO); (1RS, 5RS;1RS, 5SR)-5-(4-chlorobenzyl)-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol*

*Assessment of repeated dose toxicity:*

*Adaptive effects were observed after repeated exposure in animal studies.*

### Aspiration hazard

The product has not been tested. The statement has been derived from the properties of the individual components.

May also damage the lung at swallowing (aspiration hazard).

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 05.08.2022

Version: 10.1

Date previous version: 23.12.2021

Previous version: 10.0

Date / First version: 12.04.2002

Product: **Caramba®**

(ID no. 30271117/SDS\_CPA\_EU/EN)

Date of print 24.04.2025

#### Interactive effects

No data available.

### **11.2. Information on other hazards**

#### Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

#### Other information

Other relevant toxicity information

Misuse can be harmful to health.

---

## **SECTION 12: Ecological Information**

### **12.1. Toxicity**

Assessment of aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

Toxicity to fish:

LC50 (96 h) 15 mg/l, *Oncorhynchus mykiss* (Directive 92/69/EEC, C.1, static)

Aquatic invertebrates:

EC50 (48 h) 0.365 mg/l, *Daphnia magna* (Directive 92/69/EEC, C.2, static)

Aquatic plants:

EC50 (72 h) 8.38 mg/l (growth rate), *Selenastrum capricornutum* (OECD Guideline 201)

No observed effect concentration (72 h) 2.23 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201)

Chronic toxicity to fish:

No observed effect concentration (28 d) 0.242 mg/l, *Oncorhynchus mykiss*

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d)  $\geq$  0.4 mg/l, *Daphnia magna*

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 05.08.2022

Version: 10.1

Date previous version: 23.12.2021

Previous version: 10.0

Date / First version: 12.04.2002

Product: **Caramba®**

(ID no. 30271117/SDS\_CPA\_EU/EN)

Date of print 24.04.2025

## 12.2. Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: metconazole (ISO); (1RS, 5RS; 1RS, 5SR)-5-(4-chlorobenzyl)-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol*

*Assessment biodegradation and elimination (H<sub>2</sub>O):*

*Not readily biodegradable (by OECD criteria).*

## 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: metconazole (ISO); (1RS, 5RS; 1RS, 5SR)-5-(4-chlorobenzyl)-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol*

*Bioaccumulation potential:*

*Bioconcentration factor (BCF): 51 - 80, *Lepomis macrochirus**

*Does not accumulate in organisms.*

## 12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: metconazole (ISO); (1RS, 5RS; 1RS, 5SR)-5-(4-chlorobenzyl)-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol*

*Assessment transport between environmental compartments:*

*Volatility: The substance will not evaporate into the atmosphere from the water surface.*

*Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.*

## 12.5. Results of PBT and vPvB assessment

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 05.08.2022

Version: 10.1

Date previous version: 23.12.2021

Previous version: 10.0

Date / First version: 12.04.2002

Product: **Caramba®**

(ID no. 30271117/SDS\_CPA\_EU/EN)

Date of print 24.04.2025

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

### 12.6. Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### 12.7. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

### 12.8. Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

---

## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

Must be sent to a suitable incineration plant, observing local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

---

## SECTION 14: Transport Information

### Land transport

ADR

UN number or ID number: UN1993

UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (PENTANOL/AMYL ALCOHOL, METCONAZOLE)

Transport hazard class(es): 3, EHSM

Packing group: III

Environmental hazards: yes

Special precautions for Tunnel code: D/E

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 05.08.2022

Version: 10.1

Date previous version: 23.12.2021

Previous version: 10.0

Date / First version: 12.04.2002

Product: **Caramba®**

(ID no. 30271117/SDS\_CPA\_EU/EN)

Date of print 24.04.2025

user:

RID

UN number or ID number: UN1993

UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (PENTANOL/AMYL ALCOHOL, METCONAZOLE)

Transport hazard class(es): 3, EHSM

Packing group: III

Environmental hazards: yes

Special precautions for user: None known

### **Inland waterway transport**

ADN

UN number or ID number: UN1993

UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (PENTANOL/AMYL ALCOHOL, METCONAZOLE)

Transport hazard class(es): 3, EHSM

Packing group: III

Environmental hazards: yes

Special precautions for user: None known

### **Transport in inland waterway vessel**

Not evaluated

### **Sea transport**

IMDG

UN number or ID number: UN 1993

UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (PENTANOL/AMYL ALCOHOL, METCONAZOLE)

Transport hazard class(es): 3, EHSM

Packing group: III

Environmental hazards: yes

Marine pollutant: YES

Special precautions for user: EmS: F-E; S-E



BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 05.08.2022

Version: 10.1

Date previous version: 23.12.2021

Previous version: 10.0

Date / First version: 12.04.2002

Product: **Caramba®**

(ID no. 30271117/SDS\_CPA\_EU/EN)

Date of print 24.04.2025

## **Air transport**

IATA/ICAO

UN number or ID number: UN 1993

UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (PENTANOL/AMYL ALCOHOL, METCONAZOLE)

Transport hazard class(es): 3

Packing group: III

Environmental hazards: No Mark as dangerous for the environment is needed

Special precautions for user: None known

### **14.1. UN number or ID number**

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

### **14.2. UN proper shipping name**

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

### **14.3. Transport hazard class(es)**

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

### **14.4. Packing group**

See corresponding entries for "Packing group" for the respective regulations in the tables above.

### **14.5. Environmental hazards**

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

### **14.6. Special precautions for user**

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

### **14.7. Maritime transport in bulk according to IMO instruments**

Maritime transport in bulk is not intended.

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 05.08.2022

Version: 10.1

Date previous version: 23.12.2021

Previous version: 10.0

Date / First version: 12.04.2002

Product: **Caramba®**

(ID no. 30271117/SDS\_CPA\_EU/EN)

Date of print 24.04.2025

## SECTION 15: Regulatory Information

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

#### Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 3, 40, 75

Restrictions of Regulation (EC) No 1907/2006, Annex XVII, do not apply for the intended use(s) of the product given in this SDS.

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):

List entry in regulation: E1

List entry in regulation: P5c

To avoid risks to man and the environment, comply with the instructions for use.

### 15.2. Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

## SECTION 16: Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Asp. Tox.	Aspiration hazard
Flam. Liq.	Flammable liquids
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Skin Sens.	Skin sensitization
Repr.	Reproductive toxicity
STOT SE	Specific target organ toxicity — single exposure
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Acute Tox.	Acute toxicity
H226	Flammable liquid and vapour.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H304	May be fatal if swallowed and enters airways.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 05.08.2022

Version: 10.1

Date previous version: 23.12.2021

Previous version: 10.0

Date / First version: 12.04.2002

Product: **Caramba®**

(ID no. 30271117/SDS\_CPA\_EU/EN)

Date of print 24.04.2025

H302	Harmful if swallowed.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
H332	Harmful if inhaled.
EUH066	Repeated exposure may cause skin dryness or cracking.

#### Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

---

Vertical lines in the left hand margin indicate an amendment from the previous version.