

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

### 1.1 Product identifier

- Trade name: **CARAMBA Profi High-Performance Zinc Spray - Matt Grey (Aerosol)**
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
No further relevant information available.

Application of the substance / the preparation *Anticorrosion additive*

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

#### Manufacturer/Supplier:

CARAMBA CHEMIE GMBH & Co.KG  
WANHEIMERSTR. 334/336  
47055 DUISBURG  
www.caramba.de

Tel.: +49 (0) 203/77 86 01

#### Further information obtainable from:

Abteilung Labor  
Andrea Petersen  
andrea.petersen@caramba.de  
Tel.: +49 (0)203 / 77 86-189

### 1.4 Emergency telephone number:

Giftnotruf Berlin +49(0)30 30686 790 Beratung in Deutsch und Englisch

## 2 Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Directive 67/548/EEC or Directive 1999/45/EC



F+; Extremely flammable

R12: Extremely flammable.



N; Dangerous for the environment

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

#### Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Warning! Pressurized container.

#### Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

### 2.2 Label elements

#### Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

#### Code letter and hazard designation of product:



F+ Extremely flammable

N Dangerous for the environment

#### Risk phrases:

12 Extremely flammable.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

66 Repeated exposure may cause skin dryness or cracking.

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67 Vapours may cause drowsiness and dizziness.

**Safety phrases:**

- 2 Keep out of the reach of children.
- 16 Keep away from sources of ignition - No smoking.
- 23 Do not breathe spray.
- 51 Use only in well-ventilated areas.
- 60 This material and its container must be disposed of as hazardous waste.

**Special labelling of certain preparations:**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

Buildup of explosive mixtures possible without sufficient ventilation.

**Classification in accordance with Directive 75/324/EEC: Extremely flammable**
**2.3 Other hazards**
**Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

**3.2 Chemical characterization: Mixtures**

• **Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

CAS: 7440-66-6 EINECS: 231-175-3	zinc powder -zinc dust (pyrophoric) F R15-17; N R50/53 Pyr. Sol. 1, H250; Water-react. 1, H260; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	25-45%
CAS: 67-64-1 EINECS: 200-662-2	acetone Xi R36; F R11 R66-67 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	10-20%
CAS: 75-28-5 EINECS: 200-857-2	isobutane F+ R12 Flam. Gas 1, H220; Press. Gas, H280	10-20%
	Xylol (Isomerengemisch) Xn R20/21; Xi R38 R10 Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	5-10%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom. Xn R65; Xi R37; N R51/53 R10-66-67 Carc. Cat. 2 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Acute Tox. 4, H332; STOT SE 3, H335-H336	5-10%
CAS: 74-98-6 EINECS: 200-827-9	propane F+ R12 Flam. Gas 1, H220; Flam. Liq. 1, H224; Press. Gas, H280	5-10%
CAS: 106-97-8 EINECS: 203-448-7	butane F+ R12 Flam. Gas 1, H220; Press. Gas, H280	2.5-5%
CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene Xn R20; F R11 Flam. Liq. 2, H225; Acute Tox. 4, H332	1-2.5%

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- **Additional information:** For the wording of the listed risk phrases refer to section 16.

## 4 First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## 5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.  
Do not spray onto a naked flame or any incandescent material.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.

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- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

### · 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

#### **67-64-1 acetone (10-25%)**

WEL	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
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#### **Xylol (Isomerengemisch) (5-10%)**

WEL	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk; BMGV
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#### **106-97-8 butane (2.5-5%)**

WEL	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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#### **100-41-4 ethylbenzene (1-2.5%)**

WEL	Short-term value: 552 mg/m <sup>3</sup> , 125 ppm Long-term value: 441 mg/m <sup>3</sup> , 100 ppm Sk
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- **Ingredients with biological limit values:**

#### **Xylol (Isomerengemisch) (5-10%)**

BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
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- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.
- **Respiratory protection:**  
Use suitable respiratory protective device in case of insufficient ventilation.  
Filter AX
- **Protection of hands:** Protective gloves
- **Material of gloves**  
Butyl rubber, BR  
Recommended thickness of the material:  $\geq 0.7$  mm
- **Penetration time of glove material**  
Value for the permeation: Level  $\leq 60$  min  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed goggles

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## 9 Physical and chemical properties

· <b>9.1 Information on basic physical and chemical properties</b>	
· <b>General Information</b>	
· <b>Appearance:</b>	
Form:	Aerosol
Colour:	Grey
· <b>Odour:</b>	Acetone-like
· <b>Odour threshold:</b>	Not determined.
· <b>pH-value:</b>	Not determined.
· <b>Change in condition</b>	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Not applicable, as aerosol.
· <b>Flash point:</b>	Not applicable, as aerosol.
· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Self-igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Explosion limits:</b>	
Lower:	Not determined.
Upper:	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density at 20 °C:</b>	0.92 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
Dynamic:	Not determined.
Kinematic:	Not determined.
· <b>9.2 Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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## 11 Toxicological information

### · 11.1 Information on toxicological effects

#### · Acute toxicity:

#### · LD/LC50 values relevant for classification:

##### Xylol (Isomerengemisch)

Oral	LD50	8700 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	6350 mg/l (rat)

##### 64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6800 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

#### · Primary irritant effect:

- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

## 12 Ecological information

### · 12.1 Toxicity

#### · Aquatic toxicity:

##### Xylol (Isomerengemisch)

EC50	165 mg/l mg/kg (daphnia)
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#### · 12.2 Persistence and degradability

No further relevant information available.

#### · 12.3 Bioaccumulative potential

No further relevant information available.

#### · 12.4 Mobility in soil

No further relevant information available.

#### · Ecotoxicological effects:

##### · Remark:

Very toxic for fish

#### · Additional ecological information:

##### · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

#### · 12.5 Results of PBT and vPvB assessment

##### · PBT:

Not applicable.

##### · vPvB:

Not applicable.

#### · 12.6 Other adverse effects

No further relevant information available.

## 13 Disposal considerations

### · 13.1 Waste treatment methods

#### · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### · Uncleaned packaging:




#### · Recommendation:

Disposal must be made according to official regulations.

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## 14 Transport information

· 14.1 UN-Number · ADR, IMDG, IATA	UN1950
· 14.2 UN proper shipping name · ADR · IMDG · IATA	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS (ZINC POWDER, Solvent naphtha (petroleum), light arom.), MARINE POLLUTANT AEROSOLS
· 14.3 Transport hazard class(es) · ADR	
	
· Class · Label	2 5 F Gases. 2.1
· IMDG	
	
· Class · Label	2 Gases. 2.1
· IATA	
	
· Class · Label	2 Gases. 2.1
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR):	Product contains environmentally hazardous substances: zinc powder -zinc dust (pyrophoric) Yes Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user · EMS Number: · Segregation groups	Warning: Gases. F-D,S-U Heavy metals and their salts (including their organometallic compounds)
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information: · ADR · Excepted quantities (EQ): · Transport category	E0 3

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<b>Tunnel restriction code</b>	E
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## 15 Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to EU guidelines:**  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**

		F+ Extremely flammable
		N Dangerous for the environment
- **Risk phrases:**
  - 12 Extremely flammable.
  - 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
  - 66 Repeated exposure may cause skin dryness or cracking.
  - 67 Vapours may cause drowsiness and dizziness.
- **Safety phrases:**
  - 2 Keep out of the reach of children.
  - 16 Keep away from sources of ignition - No smoking.
  - 23 Do not breathe spray.
  - 51 Use only in well-ventilated areas.
  - 60 This material and its container must be disposed of as hazardous waste.
- **Special labelling of certain preparations:**  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.  
Do not spray on a naked flame or any incandescent material.  
Buildup of explosive mixtures possible without sufficient ventilation.
- **Classification in accordance with Directive 75/324/EEC:** Extremely flammable
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
  - H220 Extremely flammable gas.
  - H224 Extremely flammable liquid and vapour.
  - H225 Highly flammable liquid and vapour.
  - H226 Flammable liquid and vapour.
  - H250 Catches fire spontaneously if exposed to air.
  - H260 In contact with water releases flammable gases which may ignite spontaneously.
  - H280 Contains gas under pressure; may explode if heated.
  - H304 May be fatal if swallowed and enters airways.
  - H312 Harmful in contact with skin.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H332 Harmful if inhaled.
  - H335 May cause respiratory irritation.
  - H336 May cause drowsiness or dizziness.
  - H400 Very toxic to aquatic life.
  - H410 Very toxic to aquatic life with long lasting effects.

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**Safety data sheet**  
according to 1907/2006/EC, Article 31



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- H411 *Toxic to aquatic life with long lasting effects.*
  - R10 *Flammable.*
  - R11 *Highly flammable.*
  - R12 *Extremely flammable.*
  - R15 *Contact with water liberates extremely flammable gases.*
  - R17 *Spontaneously flammable in air.*
  - R20 *Harmful by inhalation.*
  - R20/21 *Harmful by inhalation and in contact with skin.*
  - R36 *Irritating to eyes.*
  - R37 *Irritating to respiratory system.*
  - R38 *Irritating to skin.*
  - R50/53 *Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
  - R51/53 *Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
  - R65 *Harmful: may cause lung damage if swallowed.*
  - R66 *Repeated exposure may cause skin dryness or cracking.*
  - R67 *Vapours may cause drowsiness and dizziness.*
- \* Data compared to the previous version altered.**

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