

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

### · 1.1 Product identifier

· **Trade name:** CARAMBA Profi Intensive MoS2 rust remover (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** Penetrating oil

### · 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.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **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.

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

· **Risk phrases:**

12 Extremely flammable.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **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.

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· **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: 64742-81-0 EC number: 925-653-7	Kerosine (petroleum), hydrodesulfurized Xn R65 R52/53-66 Asp. Tox. 1, H304; Aquatic Chronic 3, H412	50-70%
CAS: 106-97-8 EINECS: 203-448-7	butane F+ R12 Flam. Gas 1, H220; Press. Gas, H280	5-15%
	Hochraffiniertes Mineralöl R66	5-15%
CAS: 74-98-6 EINECS: 200-827-9	propane F+ R12 Flam. Gas 1, H220; Flam. Liq. 1, H224; Press. Gas, H280	2.5-5%
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide Press. Gas, H280	1-2.5%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom. Xn R65; Xi R37; N R51/53 R10-66-67 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Acute Tox. 4, H332; STOT SE 3, H335-H336	<1%

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

Kerosine (petroleum), hydrodesulfurized	≥ 30%
aliphatic hydrocarbons	15 - 30%

· **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.

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## 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.
- **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.

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**8.1 Control parameters**

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

**106-97-8 butane (10-25%)**

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)

**124-38-9 carbon dioxide (1-2.5%)**

WEL Short-term value: 27400 mg/m<sup>3</sup>, 15000 ppm  
Long-term value: 9150 mg/m<sup>3</sup>, 5000 ppm

- **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:** Not required.
- **Protection of hands:** Solvent resistant gloves
- **Material of gloves:** Nitrile rubber, NBR
- **Penetration time of glove material:** Value for the permeation: Level ≤ 480 min
- **Eye protection:** Safety glasses

## 9 Physical and chemical properties

**9.1 Information on basic physical and chemical properties**

**General Information**

**Appearance:**

**Form:** Aerosol  
**Colour:** Dark grey  
**Odour:** Characteristic  
**Odour threshold:** Not determined.

**pH-value:** Not determined.

**Change in condition**

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** Not applicable, as aerosol.

**Flash point:** Not applicable, as aerosol.

**Flammability (solid, gaseous):** Not applicable.

**Decomposition temperature:** Not determined.

**Self-igniting:** Product is not selfigniting.

**Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

**Explosion limits:**

**Lower:** Not determined.  
**Upper:** Not determined.

**Vapour pressure:** Not determined.

**Density at 20 °C:** 0.77 g/cm<sup>3</sup>  
**Relative density:** Not determined.  
**Vapour density:** Not determined.  
**Evaporation rate:** Not applicable.

**Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

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- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **9.2 Other information** 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.

## 11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

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

**64742-81-0 Kerosine (petroleum), hydrodesulfurized**

Oral	LD50	>5060 mg/kg (rat) (OECD Richtlinie 401)
Dermal	LD50	~ 3400 mg/kg (rabbit) (OECD Richtlinie 402)
Inhalative	LC50/4 h	13100 mg/l (rat) (OECD 403)

- **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:**

**64742-81-0 Kerosine (petroleum), hydrodesulfurized**

EC50	10 - 22 mg/kg (daphnia) (OECD 202)
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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:** Harmful to 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.  
Harmful to aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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- **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.

## 14 Transport information

<ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	UN1950
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>	1950 AEROSOLS AEROSOLS AEROSOLS, flammable
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> </ul>	<div style="text-align: center;">  </div>
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	2 5F Gases. 2.1
<ul style="list-style-type: none"> <li>· <b>IMDG, IATA</b></li> </ul>	<div style="text-align: center;">  </div>
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	2.1 2.1
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> </ul>	No
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Danger code (Kemler):</b></li> <li>· <b>EMS Number:</b></li> </ul>	Warning: Gases. - F-D,S-U
<ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	<hr style="border-top: 1px dashed black;"/>
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Excepted quantities (EQ):</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Transport category</b></li> </ul>	E0 1L 2

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<b>Tunnel restriction code</b>	D
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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
- **Risk phrases:**  
 12 Extremely flammable.  
 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **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.  
 H226 Flammable liquid and vapour.  
 H280 Contains gas under pressure; may explode if heated.  
 H304 May be fatal if swallowed and enters airways.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H411 Toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.
- **R10 Flammable.**
- **R12 Extremely flammable.**
- **R37 Irritating to respiratory system.**
- **R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**
- **R52/53 Harmful 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.**