

1 Identification of substance

· **Product details**

- **Trade name** CARAMBA Intensiv Bremsen-Reiniger (Aerosol)
- **Application of the substance / the preparation** Cleaning material/ Detergent

· **Manufacturer/Supplier:**

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

Tel.: 0203/778601

· **Informing department:**

Andrea Petersen
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2 Hazards identification

· **Hazard designation:**

- Xi Irritant*
- F+ Extremely flammable*
- N Dangerous for the environment*

· **Information pertaining to particular dangers for man and environment**

- R 12 Extremely flammable.*
- R 38 Irritating to skin.*
- R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
- R 67 Vapours may cause drowsiness and dizziness.*
- 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 system**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

3 Composition/information on ingredients

· **Chemical characterization**

- **Description:** Active substance with propellant.

· **Dangerous components:**

	Benzinkohlenwasserstoff EA CAS:64742-49-0 <i>Xn, Xi, F, N; R 11-38-51/53-65-67</i>	50-90%
CAS: 106-97-8 EINECS: 203-448-7	<i>butane</i> <i>F+; R 12</i>	10-20%
CAS: 74-98-6 EINECS: 200-827-9	<i>propane</i> <i>F+; R 12</i>	2.5-10%
CAS: 124-38-9 EINECS: 204-696-9	<i>carbon dioxide</i>	2.5-10%

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

<i>aliphatic hydrocarbons</i>	≥ 30%
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- **Additional information** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **After inhalation** In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.

(Contd. on page 2)

Trade name CARAMBA Intensiv Bremsen-Reiniger (Aerosol)

(Contd. of page 1)

- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing** Do not induce vomiting; instantly call for medical help.

5 Fire fighting measures

- **Suitable extinguishing agents** CO₂, extinguishing powder, waterspray or foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow product to get into drains or water courses.
- **Measures for cleaning/collecting:** Ensure adequate ventilation.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Store in cool, dry place in tightly closed containers.
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** Keep breathing equipment ready.
- **Storage**
- **Requirements to be met by storerooms and containers:** Only store in heated containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

8 Exposure controls and personal protection

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

- **Components with critical values that require monitoring at the workplace:**

106-97-8 butane

WEL	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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124-38-9 carbon dioxide

WEL	Short-term value: 27400 mg/m ³ , 15000 ppm Long-term value: 9150 mg/m ³ , 5000 ppm
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- **Additional information:** The lists that were valid during the compilation were used as basis.

- **Personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures should be adhered to in handling the chemicals.
Instantly remove any soiled and impregnated garments.
Avoid contact with the skin.
- **Breathing equipment:** Use breathing protection in case of insufficient ventilation.
- **Protection of hands:** Solvent resistant gloves
- **Material of gloves** Nitrile rubber, NBR
- **Penetration time of glove material** Value for the permeation: Level \geq 480

(Contd. on page 3)

Trade name CARAMBA Intensiv Bremsen-Reiniger (Aerosol)· **Eye protection:** Safety glasses

(Contd. of page 2)

9 Physical and chemical properties:· **General Information**

Form: Aerosol
Colour: Colourless
Smell: Benzen-like

· **Change in condition**

Melting point/Melting range: <-40°C (Literatur)
Boiling point/Boiling range: 80°C (Literatur)

· **Flash point:** -3°C (DIN 53 213)· **Self-inflammability:** Product is not selfigniting.· **Danger of explosion:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.· **Critical values for explosion:**

Lower: 0.8 Vol % (Literatur)
Upper: 8 Vol % (Literatur)

· **Density at 20°C** 0.71 g/cm³ (DIN 51 757)· **Solubility in / Miscibility with****Water:** Not miscible or difficult to mix**10 Stability and reactivity**

- **Conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:**
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of composition:** None

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritant for skin and mucous membranes.
- **on the eye:** No irritant effect.
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Irritant

12 Ecological information:

- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water.
Prevent entry of undiluted product or large quantities into sewers and waterways.

Trade name CARAMBA Intensiv Bremsen-Reiniger (Aerosol)

(Contd. of page 3)

13 Disposal considerations

- **Product:**
- **Recommendation**
Smaller quantities can be disposed with household garbage.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

07 06 04	other organic solvents, washing liquids and mother liquors
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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**
- **ADR/RID-GGVS/E Class:** 2 5F Gases.
- **Kemler Number:** -
- **UN-Number:** 1950
- **Packaging group:** -
- **Label** 2.1
- **Special marking:** Symbol (fish and tree)
- **Designation of goods:** 1950 AEROSOLS
- **Tunnel restriction code** D

- **Maritime transport IMDG/GGVSea:**
- **IMDG/GGVSea Class:** 2.1
- **UN Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** No
- **Correct technical name:** AEROSOLS

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** 2.1
- **UN/ID Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **Correct technical name:** AEROSOLS, flammable

15 Regulatory information

- **Designation according to EC guidelines:**
The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

- **Code letter and hazard designation of product:**

Xi Irritant
F+ Extremely flammable
N Dangerous for the environment

- **Risk phrases:**

12 Extremely flammable.
38 Irritating to skin.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
67 Vapours may cause drowsiness and dizziness.

(Contd. on page 5)

Trade name CARAMBA Intensiv Bremsen-Reiniger (Aerosol)

(Contd. of page 4)

· Safety phrases:

- 2 Keep out of the reach of children.
- 16 Keep away from sources of ignition - No smoking.
- 23 Do not breathe aerosol.
- 24 Avoid contact with skin.
- 51 Use only in well-ventilated areas.
- 56 Dispose of this material and its container to hazardous or special waste collection point.

· Special designation 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.

· National regulations**· Technical instructions (air):**

Class	Share in %
NK	21.0

- Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant R-phrases

- 11 Highly flammable.
- 12 Extremely flammable.
- 38 Irritating to skin.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 67 Vapours may cause drowsiness and dizziness.

- Department issuing data specification sheet:** Abteilung Labor

- Contact:** Frau Petersen

- * Data compared to the previous version altered.**