

Safety Data Sheet

according to Regulation (EC) No 1907/2006

4790 Industry cleaner citrus

Print date: 21.08.2015

Product code: 92698

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

1.1. Product identifier

4790 Industry cleaner citrus

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

Use of the substance/mixture

Stripper, other

1.3. Details of the supplier of the safety data sheet

| | | |
|-----------------|----------------------|-----------------------------|
| Company name: | KERONA GmbH | |
| Street: | Zeilbaumweg 15 | |
| Place: | D-74613 Öhringen | |
| Telephone: | +49 7941-9205 4080 | Telefax: +49 7941-9205 4090 |
| e-mail: | mail@kerona.de | |
| Contact person: | Dr. Hans Götz | Telephone: +49 170-8548 710 |
| e-mail: | hans.goetz@kerona.de | |
| Internet: | www.kerona.de | |

1.4. Emergency telephone number:

+49 761-19 240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Indications of danger: Xi - Irritant, N - Dangerous for the environment

R phrases:

Irritating to skin.

May cause sensitisation by skin contact.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Aerosol: Aerosol 3

Skin corrosion/irritation: Skin Irrit. 2

Respiratory/skin sensitization: Skin Sens. 1

Reproductive toxicity: Repr. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Flammable aerosol.

Pressurised container: May burst if heated.

Causes skin irritation.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

Suspected of damaging fertility.

Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazardous components which must be listed on the label

Naphtha

(R)-p-mentha-1,8-diene, d-limonene

n-hexane

Signal word: Warning

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Pictograms:

GHS02-GHS07-GHS08-GHS09

**Hazard statements**

| | |
|-------|--|
| H223 | Flammable aerosol. |
| H229 | Pressurised container: May burst if heated. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H336 | May cause drowsiness or dizziness. |
| H361f | Suspected of damaging fertility. |
| H411 | Toxic to aquatic life with long lasting effects. |

Precautionary statements

| | |
|-----------|--|
| P405 | Store locked up. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P308+P313 | IF EXPOSED OR CONCERNED: Get medical advice/attention. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P391 | Collect spillage. |
| P363 | Wash contaminated clothing before reuse. |
| P362 | Take off contaminated clothing. |
| P312 | Call a POISON CENTER/doctor if you feel unwell. |
| P281 | Use personal protective equipment as required. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P201 | Obtain special instructions before use. |
| P102 | Keep out of reach of children. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source. |
| P251 | Do not pierce or burn, even after use. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Stripper, other

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Hazardous components

| EC No | Chemical name | Quantity |
|------------------|--|-------------|
| CAS No | Classification according to Directive 67/548/EEC | |
| Index No | Classification according to Regulation (EC) No. 1272/2008 [CLP] | |
| REACH No | | |
| 265-151-9 | Naphtha, with hydrogenium treated | 50 - 100 % |
| 64742-49-0 | | |
| | Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411 | |
| | limonene; (R)-p-Mentha-1,8-dien | 12,5 - 25 % |
| 5989-27-5 | | |
| | Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Asp. Tox. 1, Aquatic Chronic 1 (M-Factor = 1); H226 H315 H317 H304 H410 | |
| 01-2119529223-47 | | |
| 203-777-6 | n-hexane | 1 - 5 % |
| 110-54-3 | Repr. Cat. 3, F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R11-62-48/20-65-38-67-51-53 | |
| 601-037-00-0 | Flam. Liq. 2, Repr. 2, Asp. Tox. 1, STOT RE 2, Skin Irrit. 2, STOT SE 3, Aquatic Chronic 2; H225 H361f *** H304 H373 ** H315 H336 H411 | |
| | carbon dioxide | 1 - 5 % |
| 124-38-9 | | |
| | Compressed gas; H280 | |

Full text of R-, H- and EUH-phrases: see section 16.

Labelling for contents according to Regulation (EC) No 648/2004

>= 30 % aliphatic hydrocarbons, perfumes (Limonene).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Never give anything by mouth to an unconscious person or a person with cramps. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After contact with skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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Suitable extinguishing mediaWater. Carbon dioxide (CO₂). Extinguishing powder. alcohol resistant foam**Unsuitable extinguishing media**

Strong water jet

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to the escape of irritating gases and vapours. Harmful: possible risk of irreversible effects through inhalation.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protective suit.

Additional information

Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes and clothes. Wear personal protection equipment. Keep away from sources of ignition. - No smoking. Ventilate affected area. Do not breathe gas/fumes/vapour/spray.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

The product needs to apply neutralizing agents before draining to wastewater treatment plants. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Keep container tightly closed. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Use water spray jet to protect personnel and to cool endangered containers. Vapours are heavier than air, spread along floors and form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations. Keep in a cool, well-ventilated place. Keep away from sources of ignition. - No smoking. Protect against direct sunlight.

Advice on storage compatibilityDo not store together with:
Strong acid. Oxidizing agents. Alkali (lye)**Further information on storage conditions**

Notice the directions for use on the label. storage temperature: +15°C - +30°C

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

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Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|----------|----------------|-------|-------------------|-----------|---------------|--------|
| 124-38-9 | Carbon dioxide | 5000 | 9150 | | TWA (8 h) | WEL |
| | | 15000 | 27400 | | STEL (15 min) | WEL |
| 110-54-3 | n-Hexane | 20 | 72 | | TWA (8 h) | WEL |
| | | - | - | | STEL (15 min) | WEL |

8.2. Exposure controls

Appropriate engineering controls

No data available

Protective and hygiene measures

Remove contaminated, saturated clothing immediately.
After work, wash hands and face.
When using do not eat or drink.

Eye/face protection

Wear eye/face protection.

Hand protection

Wear protective gloves.
Breakthrough times and swelling properties of the material must be taken into consideration.
NR (natural rubber, natural latex) > 0,4 mm, Breakthrough time (maximum wearing time) > 480 min
DIN EN 374

Skin protection

Wear suitable protective clothing. Wear anti-static footwear and clothing

Respiratory protection

Use suitable breathing apparatus. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|----------------|
| Physical state: | Aerosol |
| Colour: | colourless |
| Odour: | characteristic |

Test method

Changes in the physical state

| | |
|-------------------------|------------------------|
| Melting point: | No data available |
| Flash point: | < 1 °C |
| Lower explosion limits: | 0,7 vol. % |
| Upper explosion limits: | 8,1 vol. % |
| Ignition temperature: | 237 °C |
| Density (at 20 °C): | 0,72 g/cm ³ |
| Water solubility: | insoluble |

SECTION 10: Stability and reactivity

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10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Thermal decomposition can lead to the escape of irritating gases and vapours. Exothermic reaction with: Oxidising agent, strong. Strong acid. Alkali (lye)

10.4. Conditions to avoid

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

10.5. Incompatible materials

Oxidising agent, strong. Strong acid. Alkali (lye)

10.6. Hazardous decomposition products

Hazardous decomposition products: Carbon dioxide (CO₂) Carbon monoxide. Nitrogen oxides (NO_x)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No data available

Acute toxicity

No data available

Irritation and corrosivity

Causes serious eye damage. Causes skin irritation.

Sensitising effects

No data available

STOT-single exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

Severe effects after repeated or prolonged exposure

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

No data available

Aspiration hazard

May be fatal if swallowed and enters airways.

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience

Observations relevant to classification

May be harmful if swallowed, in contact with skin or if inhaled.

Other observations

No data available

SECTION 12: Ecological information

12.1. Toxicity

No data available

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| CAS No | Chemical name | | | | | |
|----------|---------------------|--------|----------|-----------|---------------------|--------------------|
| | Aquatic toxicity | Method | Dose | [h] [d] | Species | Source |
| 110-54-3 | n-hexane | | | | | |
| | Acute fish toxicity | LC50 | 2,5 mg/l | 96 h | Pimephales promelas | Geiger et al. 1990 |

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|----------|---------------|---------|
| 110-54-3 | n-hexane | 3,9 |

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No data available

Further information

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances
Classified as hazardous waste.

Waste disposal number of used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances
Classified as hazardous waste.

Contaminated packaging

Completely emptied packages can be recycled. Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|---|-----------------|
| <u>14.1. UN number:</u> | UN 1950 |
| <u>14.2. UN proper shipping name:</u> | AEROSOLS |
| <u>14.3. Transport hazard class(es):</u> | 2 |
| <u>14.4. Packing group:</u> | - |
| Hazard label: | 2.1 |
| Classification code: | 5F |
| Special Provisions: | 190 327 344 625 |

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| | |
|--------------------------|-----|
| Limited quantity: | 1 L |
| Excepted quantity: | E0 |
| Transport category: | 2 |
| Tunnel restriction code: | D |

Inland waterways transport (ADN)

| | |
|--|-----------------|
| 14.1. UN number: | UN 1950 |
| 14.2. UN proper shipping name: | AEROSOLS |
| 14.3. Transport hazard class(es): | 2 |
| 14.4. Packing group: | - |
| Hazard label: | 2.1 |
| Classification code: | 5F |
| Special Provisions: | 190 327 344 625 |
| Limited quantity: | 1 L |
| Excepted quantity: | E0 |

Marine transport (IMDG)

| | |
|--|-----------------------------|
| 14.1. UN number: | UN 1950 |
| 14.2. UN proper shipping name: | AEROSOLS |
| 14.3. Transport hazard class(es): | 2.1 |
| 14.4. Packing group: | - |
| Hazard label: | 2.1 |
| Special Provisions: | 63, 190, 277, 327, 344, 959 |
| Limited quantity: | 1000 mL |
| Excepted quantity: | E0 |
| EmS: | F-D, S-U |

Air transport (ICAO)

| | |
|--|---------------------|
| 14.1. UN number: | UN 1950 |
| 14.2. UN proper shipping name: | AEROSOLS, flammable |
| 14.3. Transport hazard class(es): | 2.1 |
| 14.4. Packing group: | - |
| Hazard label: | 2.1 |
| Special Provisions: | A145 A167 A802 |
| Limited quantity Passenger: | 30 kg G |
| Passenger LQ: | Y203 |
| Excepted quantity: | E0 |
| IATA-packing instructions - Passenger: | 203 |
| IATA-max. quantity - Passenger: | 75 kg |
| IATA-packing instructions - Cargo: | 203 |
| IATA-max. quantity - Cargo: | 150 kg |

SECTION 15: Regulatory information

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

EU regulatory information

| | |
|-------------------|---------------------------------|
| 2004/42/EC (VOC): | 100 wt % 723 g/l ISO 11890-2 |
|-------------------|---------------------------------|

National regulatory information

| | |
|--------------------------|--|
| Employment restrictions: | Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing. |
|--------------------------|--|

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Water contaminating class (D): 2 - water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Relevant R-phrases (Number and full text)

| | |
|-------|---|
| 11 | Highly flammable. |
| 38 | Irritating to skin. |
| 48/20 | Harmful: danger of serious damage to health by prolonged exposure through inhalation. |
| 51 | Toxic to aquatic organisms. |
| 53 | May cause long-term adverse effects in the aquatic environment. |
| 62 | Possible risk of impaired fertility. |
| 65 | Harmful: may cause lung damage if swallowed. |
| 67 | Vapours may cause drowsiness and dizziness. |

Relevant H- and EUH-phrases (Number and full text)

| | |
|-------|--|
| H223 | Flammable aerosol. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H229 | Pressurised container: May burst if heated. |
| H280 | Contains gas under pressure; may explode if heated. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H336 | May cause drowsiness or dizziness. |
| H361f | Suspected of damaging fertility. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)