

**Brake Cleaner****! SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Name of product Brake Cleaner
Code-Nr. 152010

1.2. Relevant identified uses of the substance or mixture and uses advised against**Recommended intended purpose(s)**

Technical Liquids

1.3. Details of the supplier of the safety data sheet**Distributor**

WEICON GmbH & Co. KG
Königsberger Str. 255, DE-48157 Münster
Phone : +49(0)251 / 9322 - 0, Fax : +49(0)251 / 9322 - 244
E-Mail : msds@weicon.de
Internet : www.weicon.de

Advice

Produktsicherheit / Product-Safety-Department
Phone : +49(0)251 / 9322 - 0
Fax : +49(0)251 / 9322 - 244
E-mail (competent person):
msds@weicon.de

1.4. Emergency telephone number

EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel:
++44 1865 407333 (English)
TRANSPORT EMERGENCY CONTACT - UK, UAE, South
Africa (24h): Tel: ++44 1865 407333 (English)

Manufacturer

WEICON GmbH & Co. KG
Königsberger Str. 255, DE-48157 Münster

1.4. Emergency telephone number

GIFTNOTRUF/TRANSPORTNOTRUF - Deutschland (24h):
Tel: ++49 69 222 25285 (Deutsch, Englisch)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]**

| Hazard classes and Hazard categories | Hazard Statements | Classification procedure |
|--------------------------------------|-------------------|--------------------------|
|--------------------------------------|-------------------|--------------------------|

| | | |
|-------------------|------|--|
| Flam. Liq. 2 | H225 | |
| Skin Irrit. 2 | H315 | |
| Eye Irrit. 2 | H319 | |
| STOT SE 3 | H336 | |
| Asp. Tox. 1 | H304 | |
| Aquatic Chronic 2 | H411 | |

Hazard Statements

| | |
|------|---|
| H225 | Highly flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |

| | |
|------|--|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS02



GHS07



GHS08



GHS09

Signal word

Danger

Hazard Statements

| | |
|------|--|
| H225 | Highly flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
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| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |

Precautionary Statements

| | |
|--------------------|--|
| P102 | Keep out of reach of children. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| P243 | Take precautionary measures against static discharge. |
| P261 | Avoid breathing vapours/spray. |
| P264 | Wash hands thoroughly after handling. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/eye protection. |
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P303 + P361 + P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312 | Call a POISON CENTER or doctor/physician if you feel unwell. |
| P331 | Do NOT induce vomiting. |
| P332 + P313 | If skin irritation occurs: Get medical advice/attention. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |
| P362 | Take off contaminated clothing. |
| P370 + P378 | In case of fire: Use foam for extinction. |
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P403 + P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to hazardous or special waste collection point. |

**Brake Cleaner****Hazardous ingredients for labeling**

Naphtha (petroleum) hydrotreated , free of aromatics (note P: < 0,1% benzene), propan-2-ol

Special rules for supplemental label elements for certain mixtures

Contains Orange sweet, ext. May produce an allergic reaction.

2.3. Other hazards

Product has an anesthetic effect.

Information pertaining to special dangers for human and environment

In extensive use, formation of flammable / explosive vapour-air mixture is possible.

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/ information on ingredients**3.1. Substances**

not applicable

3.2. Mixtures**Hazardous ingredients**

| CAS No | EC No | Name | [% weight] | Classification according to Regulation (EC) No 1272/2008 [CLP/GHS] |
|------------|-----------|---|------------|---|
| 67-63-0 | 200-661-7 | propan-2-ol | 20 - 25 | Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336 |
| 67-64-1 | 200-662-2 | acetone | 15 - 20 | Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336 |
| 64742-49-0 | 265-151-9 | Naphtha (petroleum) hydrotreated , free of aromatics (note P: < 0,1% benzene) | 45 - 55 | Flam. Liq. 2, H225 / Asp. Tox. 1, H304 / Skin Irrit. 2, H315 / STOT SE 3, H336 / Aquatic Chronic 2, H411 |
| 8028-48-6 | 232-433-8 | Orange, sweet, ext. | 0,3 - 0,5 | Flam. Liq. 3, H226 / Skin Irrit. 2, H315 / Skin Sens. 1, H317 / Asp. Tox. 1, H304 / Aquatic Chronic 2, H411 / |

REACH

| CAS No | Name | REACH registration number |
|------------|---|---------------------------|
| 67-63-0 | propan-2-ol | 01-2119457558-25 |
| 67-64-1 | acetone | 01-2119471330-49 |
| 64742-49-0 | Naphtha (petroleum) hydrotreated , free of aromatics (note P: < 0,1% benzene) | 01-2119475133-43 |
| 8028-48-6 | Orange, sweet, ext. | 01-2119493353-35 |

Labelling for contents according to regulation (EC) No 648/2004, annex VII

30 % and more aliphatic hydrocarbons

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove contaminated soaked clothing immediately.

In case of inhalation

Ensure of fresh air.

In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off with soap and water.

Consult a doctor if skin irritation persists.



Brake Cleaner

In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

In case of ingestion

Do not induce vomiting.

Call for a doctor immediately.

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

Physician's information / possible symptoms

Delirious state

vomiting

Headache

Confusion

skin irritation

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

Treatment (Advice to doctor)

If swallowed or in the event of vomiting, risk of entering the lungs.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam

Dry powder

Carbon dioxide

Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible.

Carbon monoxide (CO)

Carbon dioxide (CO₂)

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

Do not inhale explosion and/or combustion gases.

Additional information

Cool endangered containers with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ensure adequate ventilation.

Use personal protective clothing.

Keep away sources of ignition.

Use breathing apparatus if exposed to vapours/dust/aerosol.



6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Allow to vaporise.

Ventilate area concerned

Take up residues with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

Take up soaked earth.

6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep container tightly closed.

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Open and handle container with care!

Provide good room ventilation even at ground level (vapours are heavier than air).

General protective measures

Do not inhale vapours.

Avoid contact with eyes and skin

Ensure sufficient ventilation.

Hygiene measures

Cloths contaminated with product should not be kept in trouser pockets.

At work do not eat, drink, smoke or take drugs.

Work in rooms with good ventilation.

Wash hands before breaks and after work.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking

The product is combustible.

Vapours can form an explosive mixture with air.

Take precautionary measures against static discharges.

Avoid effect of heat.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in closed original container.

Advice on storage compatibility

Do not store together with animal feedstuffs.

Do not store together with food.

Further information on storage conditions

Store at +5 till +25 °C.

Protect from heat and direct solar radiation.

Do not keep containers unlocked.

Store container at cool and aired place.

Protect from heat/overheating.

7.3. Specific end use(s)

Recommendation(s) for intended use

See section 1.2

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
Ingredients with occupational exposure limits to be monitored

| CAS No | Name | Code | [mg/m ³] | [ppm] | Remark |
|---------|-------------|------------|----------------------|-------|-----------|
| 67-64-1 | Acetone | 8 hours | 1210 | 500 | EH40/2005 |
| | | Short-term | 3620 | 1500 | |
| 67-63-0 | propan-2-ol | 8 hours | 999 | 400 | EH40/2005 |
| | | Short-term | 1250 | 500 | |

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2006/15/EC or 2009/161/EU)

| CAS No | Name | Code | [mg/m ³] | [ppm] | Remark |
|---------|---------|---------|----------------------|-------|--------|
| 67-64-1 | acetone | 8 hours | 1210 | 500 | |

DNEL-/PNEC-values
DNEL worker

| CAS No | Substance name | Value | Code | Remark |
|---------|----------------|------------------------|--------------------------------------|--------|
| 67-63-0 | propan-2-ol | 888 mg/kg bw/day | DNEL long-term dermal (systemic) | |
| | | 500 mg/m ³ | DNEL long-term inhalative (systemic) | |
| 67-64-1 | acetone | 2420 mg/m ³ | DNEL acute inhalative (local) | |
| | | 1210 mg/m ³ | DNEL long-term inhalative (systemic) | |
| | | 186 mg/kg | DNEL long-term dermal (systemic) | |

PNEC

| CAS No | Substance name | Value | Code | Remark |
|---------|----------------|------------|-----------------------------|--------|
| 67-64-1 | acetone | 30,4 mg/kg | PNEC sediment, freshwater | |
| | | 1,06 mg/l | PNEC aquatic, marine water | |
| | | 3,04 mg/kg | PNEC sediment, marine water | |
| | | 10,6 mg/l | PNEC aquatic, freshwater | |

Additional advice

The statutory local and national regulations have to be observed.

8.2. Exposure controls
Respiratory protection

If ventilation insufficient, wear respiratory protection.

In case of insufficient ventilation or long-term effect use breathing apparatus.

Breathing apparatus in the event of aerosol or mist formation.

Multi-purpose filter ABEK/P3, otherwise environment-independent breathing apparatus.

Hand protection

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nitrile rubber; 0,4mm; 480min;60min.

Chemical protective gloves must be chosen carefully in view of their design and depending on the dependence on the concentration and amounts of dangerous goods used in the specific working tasks.

Eye protection

tightly fitting goggles

**Brake Cleaner****Other protection measures**

protective clothing

Appropriate engineering controls

Sufficient ventilation and exhaustion.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Appearance**

liquid

Colour

colourless, clear

Odour

solvent-like

Odour threshold

not determined

Important health, safety and environmental information

| | Value | Temperature | at | Method | Remark |
|--|-------------------------|-------------|----|--------|-----------------------------------|
| pH value | not determined | | | | |
| boiling range | 56 - 175 °C | | | | |
| melting range | not determined | | | | |
| Flash point | < 10 °C | | | | |
| Vapourisation rate | not determined | | | | |
| Flammable (solid) | not applicable | | | | |
| Flammability (gas) | not applicable | | | | |
| Ignition temperature | 425 °C | | | | |
| Self ignition temperature | | | | | The product is not self-igniting. |
| Lower explosion limit | 0,7 Vol-% | | | | |
| Upper explosion limit | 13 Vol-% | | | | |
| Vapour pressure | ca. 233 hPa | 20 °C | | | |
| Relative density | 0,743 g/cm ³ | 20 °C | | | |
| Vapour density | not determined | | | | |
| Solubility in water | | | | | No or low immiscibility |
| Solubility/other | not determined | | | | |
| Partition coefficient n-octanol/water (log P O/W) | not determined | | | | |
| Decomposition temperature | not determined | | | | |

**Brake Cleaner**

| | Value | Temperature | at | Method | Remark |
|----------------------------|----------------|-------------|----|--------|--------|
| Viscosity dynamic | not determined | | | | |
| Viscosity kinematic | not determined | | | | |

Oxidising properties

No information available.

Explosive properties

The product is considered non-explosive ; nevertheless explosive vapour/air mixtures can be generated .

9.2. Other information

No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Formation of explosive gas/air mixtures.

10.4. Conditions to avoid

Keep away from heat.

Uncleaned empty vessels may contain product gases which can form explosive mixtures with air.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide.

Thermal decomposition

Remark No decomposition if used as directed.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity/Irritation/Sensitization**

| | Value/Validation | Species | Method | Remark |
|---------------------------|------------------|---------|--------|-----------------|
| LD50 acute oral | > 2000 mg/kg | rat | | CAS: 64742-49-0 |
| Skin irritation | irritant | | | |
| Eye irritation | irritant | | | |
| Skin sensitization | non-sensitizing | | | |

**Brake Cleaner****Subacute Toxicity - Carcinogenicity**

| Value | Species | Method | Validation |
|------------------------------|---------|--------|---|
| Mutagenicity | | | No experimental information on genotoxicity in vitro available. |
| Reproduction-Toxicity | | | No indications of toxic effects were observed in reproduction studies in animals. |
| Carcinogenicity | | | No indications of carcinogenic effects are available from long-term trials. |

Specific target organ toxicity (single exposure)

May cause drowsiness or dizziness.

Aspiration hazard

May be fatal if swallowed and enters airways.

Experiences made from practice

Often and long skin contact may cause degreasing and desiccation of the skin which may cause skin irritation.

Irritates respiratory tract.

Irritates mucous membranes.

Irritates eyes and skin.

Inhalation causes narcotic effect/intoxication.

Additional information

The product is to be handled with the caution usual with chemicals.

Other hazardous properties may not be excluded.

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

SECTION 12: Ecological information**12.1. Toxicity**

No information available.

12.2. Persistence and degradability

| Elimination rate | Method of analysis | Method | Validation |
|---------------------------------|--------------------|--------|------------|
| Biological degradability | | | degradable |

12.3. Bioaccumulative potential

Because of its consistency the product cannot be dispersed in the environment. Adverse ecological effects are therefore unlikely on the basis of current knowledge.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects**General regulation**

Toxic to aquatic life, fishes and plankton.

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into the ground water or aquatic environment.

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

The ecotoxic effect of the product has not been tested. The information on this is given on the basis of details in the literature.

**Brake Cleaner****SECTION 13: Disposal considerations****13.1. Waste treatment methods****Waste code No.**

15 01 02

15 01 10*

Name of waste

plastic packaging

packaging containing residues of or contaminated by hazardous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

Recommendations for the product

Remove in accordance with local official regulations.

Dispose of as hazardous waste.

Recommendations for packaging

Dispose of according to the local waste regulations.

General information

Assignment to a waste code number / waste identification according to the EWC is to be carried out on a sector or process-specific basis.

SECTION 14: Transport information

| | ADR/RID | IMDG | IATA-DGR |
|---|--|--|--|
| 14.1. UN number | 1993 | 1993 | 1993 |
| 14.2. UN proper shipping name | FLAMMABLE LIQUID, N.O.S. (ACETON Mixture; NAPHTHA (PETROLEUM), Propane-2-ol) | FLAMMABLE LIQUID, N.O.S. (ACETON Mixture; NAPHTHA (PETROLEUM), Propane-2-ol) | Flammable liquid, n.o.s. (ACETON Mixture; NAPHTHA (PETROLEUM), Propane-2-ol) |
| 14.3. Transport hazard class(es) | 3 | 3 | 3 |
| 14.4. Packing group | II | II | II |
| 14.5. Environmental hazards | Yes | Yes | Yes |

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

Land and inland navigation transport ADR/RID

Hazard label(s) 3

tunnel restriction code D/E

Special provisions 640C

Classification code F1

transport in "limited quantities" according to 3.4 ADR is possible

Marine transport IMDG

MARINE POLLUTANT



! SECTION 15: Regulatory information

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

VOC standard

| | |
|-------------|------------|
| VOC content | 100 % |
| VOC value | ca.743 g/L |

15.2. Chemical Safety Assessment

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

! SECTION 16: Other information

! Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

For industrial use only.

Further information

Each user is responsible for the implementation of the national special regulations.

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Please observe the following disclaimer! --- Our safety data sheets have been compiled according to effective EU-directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 8.7

| | |
|------|--|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |