



SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Brake Cleaner Spray

Article number 112030

Revision date: Dec/18/2015

Version: 1

Language: en-US

Date of print: Jan/4/2016

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1. Product and company identification

Product identifier

Trade name: Brake Cleaner Spray

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

General use: Technical aerosol
Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Company name: Weicon GmbH & Co. KG

Street/POB-No.: Königsberger Str. 255

Postal Code, city: 48157 Münster

Germany

WWW: www.weicon.de

E-mail: info@weicon.de

Telephone: +49 (0)251- 93 22-0

Telefax: +49 (0)251- 93 22-244

Dept. responsible for information:

Product-Safety-Department

Telephone: +49(0)251 / 9322 - 0, Email: msds@weicon.de

Emergency phone number

GIZ, Bonn (Germany)

Telephone: +49(0)228 / 19 240

2. Hazards identification

Emergency overview

Appearance: Form: Aerosol, liquid

Color: colorless

Odor: characteristic

Classification: Aerosol - Category 1; Skin Irritation - Category 2; Sensitization - skin - Category 1;
Specific Target Organ Toxicity (Single Exposure) - Category 3;
Aquatic toxicity - chronic - Category 2;

Hazard symbols:



Signal word: **Danger**

Hazard statements:
Extremely flammable aerosol.
Pressurised container: May burst if heated.
Causes skin irritation.
May cause an allergic skin reaction.
May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects.



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Precautionary statements: Keep out of reach of children.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash hands and face thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection.
IF ON SKIN: Wash with plenty of water/soap.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor if you feel unwell.
Specific treatment (see 'First aid' on this label).
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing.
Collect spillage.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Dispose of contents/container to hazardous or special waste collection point.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified

Higher doses may have a narcotic effect.
Exposure to temperatures exceeding 122 °F will increase pressure: resulting in danger of bursting or explosion.
Potentially explosive mixtures may form if adequate ventilation is not provided.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Preparation of active ingredients with propellant

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 64742-49-0	Naphtha (petroleum)	50 - 75 %	Flammable Liquid - Category 2. Skin Irritation - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1. Aquatic toxicity - chronic - Category 2.
CAS 109-66-0	hydrotreated light n-Pentane	10 - 25 %	Flammable Liquid - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1. Aquatic toxicity - chronic - Category 2.
CAS 64-17-5	Ethanol	3 - 10 %	Flammable Liquid - Category 2.
CAS 5989-27-5	(R)-p-Mentha-1,8-diene	< 1 %	Flammable Liquid - Category 3. Skin Irritation - Category 2. Sensitization - skin - Category 1. Aquatic toxicity - acute - Category 1. Aquatic toxicity - chronic - Category 1.
CAS 106-97-8	Butan	3 - 10 %	Flammable Gas - Category 1. Compressed Gas.
CAS 74-98-6	Propane	3 - 10 %	Flammable Gas - Category 1. Compressed Gas.



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Additional information: Naphtha (petroleum), hydrotreated light, < 0,1% benzene
< 5% perfumes (D-Limonene); > 30% aliphatic hydrocarbons

4. First aid measures

General information: Take off immediately all contaminated clothing and wash it before reuse.

In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing.
Seek medical attention.

Following skin contact: After contact with skin, wash immediately with soap and plenty of water. Consult a doctor if skin irritation persists.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

After swallowing: Immediately get medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Causes skin irritation. May cause drowsiness or dizziness. May cause an allergic skin reaction.
Inhalation causes narcotic effects/intoxication. Dizziness, fatigue, headache. May cause respiratory irritation.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:
-142.6 °F

Auto-ignition temperature: not self-igniting

Suitable extinguishing media:
Alcohol resistant foam, dry chemical powder, carbon dioxide, water fog.

Extinguishing media which must not be used for safety reasons:
High power water jet

Specific hazards arising from the chemical

Extremely flammable aerosol.
Do not expose to high temperature. Danger of bursting and explosion. Cool exposed containers with water spray.
May form dangerous gases and vapours in case of fire. carbon monoxide and carbon dioxide.
Potentially explosive vapor/air mixtures may form.

Protective equipment and precautions for firefighters:
Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information: Cool endangered containers with water jetspray. Do not allow fire water to penetrate into surface or ground water.



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6. Accidental release measures

- Personal precautions:** Provide adequate ventilation. Do not breathe gas/vapor/spray. Avoid contact with the substance. Eliminate all ignition sources if safe to do so. Wear protective equipment. Keep unprotected people away. Do not open or incinerate, even when empty. Do not spray into flames or on incandescent objects. Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction.
- Environmental precautions:** Do not allow to enter into ground-water, surface water or drains. In case of release, notify competent authorities. Danger of explosion!
- Methods for clean-up:** Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Beware of reignition. Thoroughly clean surrounding area.
- Additional information:** Use explosion-proof equipment and non-sparking tools/utensils.

7. Handling and storage

Handling

- Advices on safe handling:** Provide adequate ventilation, and local exhaust as needed. Do not breathe gas/vapor/spray. Avoid contact with skin and eyes. Wear protective equipment. Keep unprotected people away. Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation. Take off immediately all contaminated clothing and wash it before reuse.
- Precautions against fire and explosion:** Container under pressure. Do not open or incinerate, even when empty. Do not spray into flames or on incandescent objects. Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges. Use only explosion-protected equipment/instruments. Do not weld. In partially filled containers explosive mixtures may form. Vapors may form explosive mixtures with air.

Storage

- Requirements for storerooms and containers:** Keep container tightly closed and in a well-ventilated place. Keep container dry. Keep only in the original container. Protect from heat and direct sunlight. Keep at temperature not exceeding 122 °F. Store containers in upright position. Explosion protection required. Store locked up.
- Hints on joint storage:** Do not store together with combustible or self-igniting materials or any highly flammable solids. Keep away from food, drink and animal feedingstuffs.



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8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
109-66-0	n-Pentane	NIOSH: Ceiling USA: NIOSH: TWA	1800 mg/m ³ ; 610 ppm 350 mg/m ³ ; 120 ppm
64-17-5	Ethanol	USA: ACGIH: TWA USA: NIOSH: TWA USA: OSHA: TWA	1880 mg/m ³ ; 1000 ppm 1900 mg/m ³ ; 1000 ppm 1900 mg/m ³ ; 1000 ppm
106-97-8	Butan	USA: ACGIH: TWA USA: NIOSH: TWA	2370 mg/m ³ ; 1000 ppm 1900 mg/m ³ ; 800 ppm
74-98-6	Propane	USA: NIOSH: TWA USA: OSHA: TWA	1800 mg/m ³ ; 1000 ppm 1800 mg/m ³ ; 1000 ppm

Engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Use only explosion-proof equipment.
See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection	Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.
Skin protection	Flame retardant, antistatic and chemical resistant protective clothing. Protective gloves according to OSHA Standard - 29 CFR: 1910.138 (Solvent resistant protective gloves). Glove material: Nitrile rubber - Layer thickness: 0.4 mm Breakthrough time: < 480 min. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Respiratory protection:	Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If higher concentrations occur: Wear self-contained breathing apparatus.
General hygiene considerations:	Use only non-sparking tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Do not breathe gas/vapor/spray. Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse. When using do not eat, drink or smoke. Wash hands before breaks and after work.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Form: Aerosol, liquid Color: colorless
Odor:	characteristic
Odor threshold:	no data available
pH value:	not determined



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Melting point/freezing point:	not applicable
Initial boiling point and boiling range:	-47.2 °F
Flash point/flash point range:	-142.6 °F
Evaporation rate:	no data available
Flammability:	extremely flammable aerosol
Explosion limits:	LEL (Lower Explosion Limit): 0.80 Vol-% UEL (Upper Explosive Limit): 15.00 Vol-%
Vapor pressure:	at 68 °F: 573 hPa
Vapor density:	not determined
Density:	at 68 °F: 0.669 g/mL
Solubility:	not determined
Water solubility:	at 68 °F: 5 g/L
Partition coefficient: n-octanol/water:	not determined
Auto-ignition temperature:	not self-igniting
Thermal decomposition:	No decomposition when used properly.
Viscosity, dynamic:	not determined
Viscosity, kinematic:	not determined
Explosive properties:	Product is not explosive. Potentially explosive vapor/air mixtures may form.
Ignition temperature:	392 °F
Solvent content:	100 %

10. Stability and reactivity

Reactivity:	Extremely flammable aerosol. Vapors may form explosive mixtures with air.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	Container under pressure. Do not expose to high temperature. Danger of bursting and explosion.
Conditions to avoid:	Keep away from heat sources, sparks and open flames. Protect from direct exposure to sunlight and temperatures exceeding 122 °F.
Incompatible materials:	Do not store together with combustible or self-igniting materials or any highly flammable solids.
Hazardous decomposition products:	May form dangerous gases and vapours in case of fire. Carbon monoxide and carbon dioxide
Thermal decomposition:	No decomposition when used properly.



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11. Toxicological information

Toxicological tests

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.
Acute toxicity (oral): Lack of data.
Acute toxicity (dermal): Lack of data.
Acute toxicity (inhalative): Lack of data.
Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation.
Information about Naphtha (petroleum), hydrotreated light
Specific symptoms in animal studies (Rabbit): Irritant
Eye damage/irritation: Based on available data, the classification criteria are not met.
Sensitisation to the respiratory tract: Lack of data.
Skin sensitisation: Sensitization - skin -
Category 1 = May cause an allergic skin reaction.
Information about (R)-p-Mentha-1,8-diene:
Specific symptoms in animal studies (Guinea pig): Sensitising (OECD 429).
Germ cell mutagenicity/Genotoxicity: Lack of data.
Carcinogenicity: Lack of data.
Reproductive toxicity: Lack of data.
Effects on or via lactation: Lack of data.
Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) - Category 3 = May cause drowsiness or dizziness.
Information about Naphtha (petroleum), hydrotreated light
Central nervous system depression
Specific target organ toxicity (repeated exposure): Lack of data.
Aspiration hazard: Based on available data, the classification criteria are not met.

Other information: Information about Naphtha (petroleum), hydrotreated light:
LD50 Rat, oral: > 5000 mg/kg (OECD 401)
LD50, Rabbit, dermal: > 2000 mg/kg (OECD 402)
LC50, Rat, inhalative: > 5,61 mg/L (OECD 403)
Information about (R)-p-Mentha-1,8-diene:
LD50 Rat, oral: > 4400 mg/kg (OECD 401)
LD50, Rabbit, dermal: > 2000 mg/kg (OECD 402)
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed

Symptoms

After contact with skin:
Prolonged/repetitive skin contact may cause skin defatting or dermatitis.



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12. Ecological information

Ecotoxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.
Information about Naphtha (petroleum), hydrotreated light
Algae toxicity:
EL50 Pseudokirchneriella subcapitata (green algae): 56 mg/L/72h (OECD 201)
Daphnia toxicity:
EL50 Daphnia magna (Big water flea): 4.5 mg/L/48h (OECD 202)
Fish toxicity:
LL50 Leuciscus idus: 4.5 mg/L/96h (OECD 203)
Information about (R)-p-Mentha-1,8-diene
Daphnia toxicity:
EC50 Daphnia magna (Big water flea) 0.36 mg/L/48h
Fish toxicity:
LC50 Pimephales promelas (fathead minnow) 0.72 mg/L/96h (OECD 203)

Further details: Information about Naphtha (petroleum), hydrotreated light:
Biodegradation: 77.05 % /28 d (OECD 301 F).
Easily bio-degradable.
Information about (R)-p-Mentha-1,8-diene
Biodegradation: 80 %/28 d (OECD 301 D).
Biodegradable.

Mobility in soil

no data available

Persistence and degradability

Further details: no data available

Additional ecological information

Volatile organic compounds (VOC):
99.98 % by weight = 668.9 g/L

General information: Do not allow to penetrate into soil, waterbodies or drains.

13. Disposal considerations

Product

Recommendation: Dispose of waste according to applicable legislation.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle empty containers with care. Incineration may cause explosion. Spray can must be completely empty for proper waste disposal.



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14. Transport information

USA: Department of Transportation (DOT)

Identification numbers: UN1950
Proper shipping name: UN 1950, AEROSOLS
DOT hazard class or division: 2.1
Label codes: 2.1
Special provisions: N82
Packaging - Exceptions: 306
Packaging - Non-bulk: None
Packaging - Bulk: None
Quantity limitations - Passenger aircraft / rail:
75 kg
Quantity limitations - Cargo only: 150 kg
Vessel stowage - Location: A
Vessel stowage - Other: 25, 87, 126



Sea transport (IMDG)

UN number: UN 1950
Proper shipping name: UN 1950, AEROSOLS
IMDG: Class 2.1, Subrisk -
Packing Group: -
EmS: F-D, S-U
Special provisions: 63, 190, 277, 327, 344, 959
Limited quantities: 1000 mL
EQ: E0
Contaminated packaging - Instructions: P207, LP02
Contaminated packaging - Provisions: PP87, L2
IBC - Instructions: -
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: -
Tank instructions - Provisions: -
Stowage and handling: SW1 SW22
Segregation: SG69
Properties and observations: -
Marine pollutant: yes

Air transport (IATA)

UN/ID number: UN 1950
Proper shipping name: UN 1950, AEROSOLS, flammable
ICAO/IATA: Class 2.1
Hazard: Flamm. gas
EQ: E0
Passenger Ltd.Qty.: Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
Passenger: Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
Cargo: Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg
Special Provisioning: A145 A167 A802
ERG: 10L



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15. Regulatory information

National regulations - U.S. Federal Regulations

Naphtha (petroleum), hydrotreated light:	TSCA: listed - UVCB TSCA Inventory: listed; UVCB TSCA HPVC: not listed
n-Pentane:	TSCA Inventory: listed; EPA flags T TSCA HPVC: not listed Clean Air Act: Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = g NIOSH Recommendations: Occupational Health Guideline: 0486
Ethanol:	TSCA: listed TSCA Inventory: listed TSCA HPVC: not listed NIOSH Recommendations: Occupational Health Guideline: 0262
(R)-p-Mentha-1,8-diene:	TSCA Inventory: listed TSCA HPVC: not listed Carcinogen Status: IARC Rating: Group 3 OSHA Carcinogen: not listed NTP Rating: not listed Other Environmental Laws: Marine Pollutant: listed as pollutant.
Butan:	TSCA Inventory: listed TSCA HPVC: not listed Clean Air Act: Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = f NIOSH Recommendations: Occupational Health Guideline: 0068*
Propane:	TSCA Inventory: listed TSCA HPVC: not listed Clean Air Act: Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = f NIOSH Recommendations: Occupational Health Guideline: 0524



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National regulations - U.S. State Regulations

Ethanol:	California Proposition 65 code: - Idaho Air Pollutant List: Title 585: AAC: 94 - EL: 125 - OEL: 1880 - Title 586: - Massachusetts Haz. Substance codes: 2,4,5,6 *T1* Minnesota Haz. Substance: Codes: AO - Ratings: 7.74 Pennsylvania Haz. Substance code: - Washington Air Contaminant: TWA: 1000 ppm - 1900 mg
Butan:	Delaware Air Quality Management List: DRQ: F 1000** - RQ State: State requirements differs from Federal Massachusetts Haz. Substance codes: 4,5,6 Minnesota Haz. Substance: Codes: A - Ratings: - - Status: Title III New Jersey RTK Hazardous Substance: DOT: 1011 - Sub No.: 0273 - TPQ: - Pennsylvania Haz. Substance code: - Washington Air Contaminant: TWA: 800 ppm - 1900 mg
Propane:	California Proposition 65 code: - Delaware Air Quality Management List: DRQ: F 1000** - RQ State: State requirements differs from Federal Massachusetts Haz. Substance codes: 2,4,5,6 Minnesota Haz. Substance: Codes: AP - Ratings: - - Status: Title III New Jersey RTK Hazardous Substance: DOT: 1978 - Sub No.: 1594 - TPQ: - Pennsylvania Haz. Substance code: - Washington Air Contaminant: TWA: 1000 ppm - 1800 mg

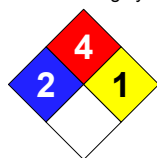
National regulations - Great Britain

Hazchem-Code: -

16. Other information

Text for labeling: Contains 50 - 75 % Naphtha (petroleum), hydrotreated light, 10 - 25 % n-Pentane, 3 - 10 % Ethanol, < 1 % (R)-p-Mentha-1,8-diene, 3 - 10 % Butan, 3 - 10 % Propane.
Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:
Health: 2 (Moderate)
Fire: 4 (Severe)
Reactivity: 1 (Slight)
HMIS Version III Rating:
Health: 2 (Moderate)
Flammability: 4 (Severe)
Physical Hazard: 1 (Slight)
Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	4
PHYSICAL HAZARD	1
	X

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Department issuing data sheet

Contact person: see section 1: Dept. responsible for information



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