

Brake Cleaner liquid

Material number 152010

Page: 1 of 11

1. Product and company identification**Product identifier**

Trade name: Brake Cleaner liquid

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

General use: Cleaning agent

Details of the supplier of the safety data sheet

Company name: WEICON Inc.
Street/POB-No.: 20 Steckle Place, Unit 20
Postal Code, city: Kitchener, Ontario N2E 2C3, CA
WWW: www.weicon.ca
E-mail: info@weicon.ca
Telephone: +1-519-896-5252
Telefax: +1-519-896-5254
Dept. responsible for information:
Product-Safety-Department
Telephone: +49(0)251 / 9322 - 0, Email: msds@weicon.de

Emergency phone number**EMERGENCY CONTACT – Canada (24h): Tel: ++1 866 928 0789 (Toll free)****Transport:****TRANSPORT EMERGENCY CONTACT - Canada (24h): Tel: ++1 866 928 0789 (Toll free)****2. Hazards identification****Emergency overview**

Appearance: Form: liquid
Color: colorless
Odor: characteristic
Classification: Flammable Liquid 2; Skin Irritation 2; Eye Irritation 2A; Sensitization - skin 1;
Specific Target Organ Toxicity (Single Exposure) 3; Aspiration Toxicity 1;
Aquatic toxicity - chronic 2;

Hazard symbols:



Signal word:

Danger

Hazard statements: Highly flammable liquid and vapor.
May be fatal if swallowed and enters airways.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects.



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 2/Jan/2017

Version: 2

Language: en-CA,US

Date of print: 10/Jan/2017

Brake Cleaner liquid

Material number 152010

Page: 2 of 11

Precautionary statements: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
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/face protection.
IF SWALLOWED: Immediately call a POISON CENTER/doctor.
IF ON SKIN: Wash with plenty of water/soap.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/or shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER/doctor if you feel unwell.
Specific treatment (see ' First aid ' on this label).
Do NOT induce vomiting.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing.
In case of fire: Use foam to extinguish.
Collect spillage.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
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

Potentially explosive mixtures may form if adequate ventilation is not provided.
Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Higher doses may have a narcotic effect.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterisation: Mixture of the substances listed below with non-hazardous additions.



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 2/Jan/2017

Version: 2

Language: en-CA,US

Date of print: 10/Jan/2017

Brake Cleaner liquid

Material number 152010

Page:

3 of 11

Relevant ingredients:

| CAS No. | Designation | Content | Classification |
|----------------|---|-------------|---|
| CAS 64742-49-0 | Naphtha (petroleum), hydrotreated light, butadiene-free | 45 - 55 % | Flammable Liquid 2. Skin Irritation 2. Specific Target Organ Toxicity (Single Exposure) 3. Aspiration Toxicity 1. Aquatic toxicity - chronic 2. |
| CAS 67-63-0 | Isopropyl alcohol | 20 - 25 % | Flammable Liquid 2. Eye Irritation 2A. Specific Target Organ Toxicity (Single Exposure) 3. |
| CAS 67-64-1 | Acetone | 15 - 20 % | Flammable Liquid 2. Eye Irritation 2A. Specific Target Organ Toxicity (Single Exposure) 3. |
| CAS 8028-48-6 | Orange terpenes | 0.3 - 0.5 % | Flammable Liquid 3. Skin Irritation 2. Sensitization - skin 1. Aquatic toxicity - acute 1. Aquatic toxicity - chronic 1. |

4. First aid measures

| | |
|-------------------------|--|
| General information: | If medical advice is needed, have product container or label at hand. |
| In case of inhalation: | Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Immediately get medical attention. |
| Following skin contact: | Wash with generous amount of water and soap. Immediately remove any contaminated clothing, shoes or stockings. Wash contaminated clothing before reuse. 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. Subsequently consult an ophthalmologist. |
| After swallowing: | Do not induce vomiting. Immediately get medical attention. |

Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways.
Causes skin irritation. May cause an allergic skin reaction.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Inhaling can lead to irritations of the respiratory tract and mucous membrane.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

<= 10 °C

Auto-ignition temperature: No data available

Suitable extinguishing media:

Water fog, extinguishing powder, carbon dioxide. In case of large fires: Alcohol resistant foam, Water fog.

Extinguishing media which must not be used for safety reasons:

High power water jet



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Brake Cleaner liquid

Material number 152010

Revision date: 2/Jan/2017

Version: 2

Language: en-CA,US

Date of print: 10/Jan/2017

Page: 4 of 11

Specific hazards arising from the chemical

Highly flammable liquid and vapor.

Air combined with vapors may form potentially explosive mixtures that are heavier than air. Vapor may travel great distances and cause fire and backflashes.

May form dangerous gases and vapours in case of fire. Furthermore, there may develop: Carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Heating will lead to pressure increase: Danger of bursting and explosion.

Cool endangered containers with water spray and, if possible, remove from danger zone.

Move undamaged containers from immediate hazard area if it can be done safely.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

6. Accidental release measures

Personal precautions:

Eliminate all ignition sources if safe to do so.

Provide adequate ventilation. Do not breathe vapors.

Wear appropriate protective equipment. Avoid contact with the substance. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

Keep unprotected people away.

Cordon off downwind area at risk and warn inhabitants.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains. Danger of explosion!

In case of release, notify competent authorities.

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.

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

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 vapors.

Avoid contact with skin and eyes. Wear appropriate protective equipment. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.

Precautions against fire and explosion:

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.



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 2/Jan/2017

Version: 2

Language: en-CA,US

Date of print: 10/Jan/2017

Brake Cleaner liquid

Material number 152010

Page:

5 of 11

Storage

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.
Keep container dry. Keep only in the original container.
Protect from heat and direct sunlight.
Store containers in upright position. Explosion protection required.

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.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

| CAS No. | Designation | Type | Limit value |
|----------------|-----------------------------------|-----------------------------|-----------------------------------|
| 67-63-0 | Isopropyl alcohol | Canada, Alberta: OEL 15 min | 984 mg/m ³ ; 400 ppm |
| | | Canada, Alberta: OEL 8 hour | 492 mg/m ³ ; 200 ppm |
| | | Canada, BC: OEL STEL | 400 ppm |
| | | Canada, BC: OEL TWA | 200 ppm |
| | | Canada, Québec: VECD | 1230 mg/m ³ ; 500 ppm |
| | | Canada, Québec: VEMP | 985 mg/m ³ ; 400 ppm |
| | | USA: ACGIH: STEL | 984 mg/m ³ ; 400 ppm |
| | | USA: ACGIH: TWA | 492 mg/m ³ ; 200 ppm |
| | | USA: NIOSH: STEL | 1225 mg/m ³ ; 500 ppm |
| | | USA: NIOSH: TWA | 980 mg/m ³ ; 400 ppm |
| 67-64-1 | Acetone | USA: OSHA: TWA | 980 mg/m ³ ; 400 ppm |
| | | Canada, Alberta: OEL 15 min | 1800 mg/m ³ ; 750 ppm |
| | | Canada, Alberta: OEL 8 hour | 1200 mg/m ³ ; 500 ppm |
| | | Canada, BC: OEL STEL | 500 ppm |
| | | Canada, BC: OEL TWA | 250 ppm |
| | | Canada, Québec: VECD | 2380 mg/m ³ ; 1000 ppm |
| | | Canada, Québec: VEMP | 1190 mg/m ³ ; 500 ppm |
| | | USA: ACGIH: STEL | 500 ppm |
| | | USA: ACGIH: TWA | 250 ppm |
| | | USA: NIOSH: TWA | 590 mg/m ³ ; 250 ppm |
| USA: OSHA: TWA | 2400 mg/m ³ ; 1000 ppm | | |

Biological limit values:

| CAS No. | Designation | Type | Limit value | Parameter | Sampling |
|---------|-------------------|--------------------------|-------------|------------------|---------------------------------|
| 67-63-0 | Isopropyl alcohol | USA: ACGIH-BEI, urine | 40 mg/L | Acetone in urine | end of shift at end of workweek |
| 67-64-1 | Acetone | USA: ACGIH-BEI, urine | 25 mg/L | acetone | end of exposure or end of shift |

Engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Explosion protection required.
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.



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 2/Jan/2017

Version: 2

Language: en-CA,US

Date of print: 10/Jan/2017

Brake Cleaner liquid

Material number 152010

Page:

6 of 11

Protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Glove material: Nitrile rubber, PVC

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/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

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 vapor or spray. Avoid contact with skin and eyes.

Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

When using do not eat, drink or smoke.

Wash hands before breaks and after work.

Work place should be equipped with a shower and an eye rinsing apparatus.

9. Physical and chemical properties

Information on basic physical and chemical properties

| | |
|--|---|
| Appearance: | Form: liquid Color: colorless |
| Odor: | characteristic |
| Odor threshold: | No data available |
| pH value: | No data available |
| Melting point/freezing point: | No data available |
| Initial boiling point and boiling range: | 56 - 175 °C |
| Flash point/flash point range: | <= 10 °C |
| Evaporation rate: | No data available |
| Flammability: | Highly flammable liquid and vapor. |
| Explosion limits: | LEL (Lower Explosion Limit): 0.70 Vol-% UEL (Upper Explosive Limit): 13.00 Vol-% |
| Vapor pressure: | at 20 °C: 233 hPa |
| Vapor density: | No data available |
| Density: | at 20 °C: 0.734 g/mL |
| Water solubility: | not or slightly miscible |
| Partition coefficient: n-octanol/water: | No data available |
| Auto-ignition temperature: | No data available |
| Thermal decomposition: | No data available |
| Explosive properties: | Vapors may form explosive mixtures with air. |
| Ignition temperature: | > 425 °C |

10. Stability and reactivity

Reactivity: Highly flammable liquid and vapor.
Vapors may form explosive mixtures with air.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions

Heating will lead to pressure increase: Danger of bursting and explosion.



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 2/Jan/2017

Version: 2

Language: en-CA,US

Date of print: 10/Jan/2017

Brake Cleaner liquid

Material number 152010

Page: 7 of 11

Conditions to avoid: Keep away from heat sources, sparks and open flames.
Protect against direct sunlight.

Incompatible materials: No data available

Hazardous decomposition products: May form dangerous gases and vapours in case of fire. Furthermore, there may develop: Carbon monoxide and carbon dioxide.

Thermal decomposition: No data available

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): Based on available data, the classification criteria are not met.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Skin Irritation 2 = Causes skin irritation.

Eye damage/irritation: Eye Irritation 2A = Causes serious eye irritation.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

Skin sensitisation: Sensitization - skin 1 = May cause an allergic skin reaction.

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) 3 = May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Aspiration Toxicity 1 = May be fatal if swallowed and enters airways.

Symptoms

Unconsciousness, intoxication, vomiting, Headache

General remarks

For carcinogenic effects:
Information about CAS No. 67-63-0
Carcinogen Status:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed

12. Ecological information

Ecotoxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects. Experimental data: No information is available.

Mobility in soil

No data available



SAFETY DATA SHEET

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Brake Cleaner liquid

Material number 152010

Revision date: 2/Jan/2017

Version: 2

Language: en-CA,US

Date of print: 10/Jan/2017

Page: 8 of 11

Persistence and degradability

Further details: No data available

Additional ecological information

General information: Do not allow to enter into ground-water, surface water or drains.

13. Disposal considerations

Product

Recommendation: Dispose of waste according to applicable legislation.
Do not dispose of with household waste.

Contaminated packaging

Recommendation: Plastic packaging Dispose of waste according to applicable legislation.
Handle contaminated packages in the same way as the substance itself.
Handle empty containers with care. Incineration may cause explosion.

14. Transport information

USA: Department of Transportation (DOT)

Identification number: UN1993
Proper shipping name: UN 1993, flammable liquids, n.o.s.
(Naphtha (petroleum), hydrotreated light, Acetone, Isopropyl alcohol)
Hazard class or Division: 3
Packing Group: II
Labels: 3
Symbols: G
Special provisions: IB2, T7, TP1, TP8, TP28
Packaging – Exceptions: 150
Packaging – Non-bulk: 202
Packaging – Bulk: 242
Quantity limitations – Passenger aircraft / rail: 5 L
Quantity limitations – Cargo only: 60 L
Vessel stowage – Location: B



Canada: Transportation of Dangerous Goods (TDG)

UN Number: UN1993
Shipping name: UN 1993, Flammable liquid, n.o.s.
(Naphtha (petroleum), hydrotreated light, Acetone, Isopropyl alcohol)
TDG class: 3
Packing group: II
Special provisions: 16, 150
Explosive limit and limited quantity index: 1 L
Passenger carrying road or rail index: 5 L



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 2/Jan/2017
Version: 2
Language: en-CA,US
Date of print: 10/Jan/2017

Brake Cleaner liquid

Material number 152010

Page: 9 of 11

Sea transport (IMDG)

UN number: UN 1993
Proper shipping name: UN 1993, FLAMMABLE LIQUID, N.O.S.
(Naphtha (petroleum), hydrotreated light, Acetone, Isopropyl alcohol)
Class or division, Subsidiary risk: Class 3, Subrisk-
Packing Group: II
EmS: F-E, S-E
Special provisions: 274
Limited quantities: 1 L
Excepted quantities: E2
Contaminated packaging - Instructions: P001
Contaminated packaging - Provisions: -
IBC - Instructions: IBC02
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T7
Tank instructions - Provisions: TP1, TP8, TP28
Stowage and handling: Category B.
Properties and observations: -
Marine pollutant: yes
Segregation group: none

Air transport (IATA)

UN/ID number: UN 1993
Proper shipping name: UN 1993, FLAMMABLE LIQUID, N.O.S.
(Naphtha (petroleum), hydrotreated light, Acetone, Isopropyl alcohol)
Class or division, Subsidiary risk: Class 3
Packing Group: II
Hazard label: Flamm. liquid
Excepted Quantity Code: E2
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L
Passenger and Cargo Aircraft: Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L
Cargo Aircraft only: Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L
Special provisions: A3
Emergency Response Guide-Code (ERG): 3H

15. Regulatory information

National regulations - Canada

No data available



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 2/Jan/2017

Version: 2

Language: en-CA,US

Date of print: 10/Jan/2017

Brake Cleaner liquid

Material number 152010

Page: 10 of 11

National regulations - U.S. Federal Regulations

Naphtha (petroleum), hydrotreated light, butadiene-free:

TSCA Inventory: listed; UVCB
TSCA HPVC: not listed
TSCA: listed - UVCB

Isopropyl alcohol:

TSCA Inventory: listed
TSCA HPVC: not listed
Carcinogen Status:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed

Acetone:

NIOSH Recommendations:
Occupational Health Guideline: 0359
TSCA Inventory: listed
TSCA HPVC: not listed
Clean Air Act:
SOCMI Chemical: yes
Other Environmental Laws:
CERCLA: RQ 5000 lbs.
RCRA Hazardous Wastes: Code U002
RCRA Groundwater Monitoring: Methods 8240 / PQL 100
NIOSH Recommendations:
Occupational Health Guideline: 0004*

National regulations - U.S. State Regulations

Isopropyl alcohol:

Idaho Air Pollutant List:
Title 585: AAC: 49 -- EL: 65.3 -- WEL: 980 -Title 586: -
Massachusetts Haz. Substance codes: 2,4,5,6 F9
Minnesota Haz. Substance:
Codes: ANO -- Ratings: 7.84 -- Status: Title III. TRI.
New Jersey RTK Hazardous Substance:
DOT: 1219 - Sub No.: 1076 - TPQ: -
Pennsylvania Haz. Substance code: E
Washington Air Contaminant:
TWA: 400 ppm - 980 mg -- STEL: 500 ppm - 1225 mg

Acetone:

California Prop 65 List: None
Delaware Air Quality Management List:
DRQ: 5000 - RQ State: Federal Regulations Apply
Idaho Air Pollutant List:
Title 585: AAC: 89 - EL: 119 - OEL: 1780
Massachusetts Haz. Substance codes: 2,4,5,6 F8 F9
Minnesota Haz. Substance:
Codes: AON - Ratings: 7.16 - Status: Title III
New York List of Hazardous Substances:
RQ-Air: 5000 - RQ-Land: 1 - Note: No Note
Associated with this chemical.
Pennsylvania Haz. Substance code: E
Washington Air Contaminant:
TWA: 750 ppm - 1800 mg - STEL: 1000 ppm - 2400 mg



SAFETY DATA SHEET

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Revision date: 2/Jan/2017

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Date of print: 10/Jan/2017

Brake Cleaner liquid

Material number 152010

Page: 11 of 11

16. Other information

Text for labeling: Contains 45 - 55 % Naphtha (petroleum), hydrotreated light, butadiene-free, 20 - 25 % Isopropyl alcohol, 15 - 20 % Acetone, 0.3 - 0.5 % Orange terpenes. Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:

Health: 3 (Serious)

Fire: 3 (Serious)

Reactivity: 1 (Slight)

HMIS Version III Rating:

Health: 3 (Serious)

Flammability: 3 (Serious)

Physical Hazard: 1 (Slight)

Personal Protection: X = Consult your supervisor

| | |
|-----------------|---|
| HEALTH | 3 |
| FLAMMABILITY | 3 |
| PHYSICAL HAZARD | 1 |
| | X |

Reason of change: ADR/RID 2017

Date of first version: 28/Jun/2016

Department issuing data sheet

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

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.