



# SAFETY DATA SHEET

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

Revision date: Jan/2/2017

Version: 2

Language: en-US

Date of print: Jan/10/2017

## Brake Cleaner liquid

Material number 152010

Page: 1 of 10

### 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 – USA (24h): Tel: ++1 202 464 2554**

**Transport:**

**TRANSPORT EMERGENCY CONTACT - USA (24h): Tel: ++1 202 464 2554**

### 2. Hazards identification

#### Emergency overview

Appearance: Form: liquid  
Color: colorless

Odor: characteristic

Classification: Flammable Liquid - Category 2; Skin Irritation - Category 2; Eye Irritation - Category 2A; Sensitization - skin - Category 1; Specific Target Organ Toxicity (Single Exposure) - Category 3; Aspiration Toxicity - Category 1; Aquatic toxicity - chronic - Category 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

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

Revision date: Jan/2/2017

Version: 2

Language: en-US

Date of print: Jan/10/2017

## Brake Cleaner liquid

Material number 152010

Page: 2 of 10

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



# SAFETY DATA SHEET

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

Revision date: Jan/2/2017

Version: 2

Language: en-US

Date of print: Jan/10/2017

## Brake Cleaner liquid

Material number 152010

Page:

3 of 10

Relevant ingredients:

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

<= 50 °F

Auto-ignition temperature: No data available

Suitable extinguishing media:

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



# SAFETY DATA SHEET

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

Revision date: Jan/2/2017

Version: 2

Language: en-US

Date of print: Jan/10/2017

## Brake Cleaner liquid

Material number 152010

Page: 4 of 10

Extinguishing media which must not be used for safety reasons:

High power water jet

### 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

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

Revision date: Jan/2/2017

Version: 2

Language: en-US

Date of print: Jan/10/2017

## Brake Cleaner liquid

Material number 152010

Page: 5 of 10

### 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	USA: ACGIH: STEL	984 mg/m <sup>3</sup> ; 400 ppm
		USA: ACGIH: TWA	492 mg/m <sup>3</sup> ; 200 ppm
		USA: NIOSH: STEL	1225 mg/m <sup>3</sup> ; 500 ppm
		USA: NIOSH: TWA	980 mg/m <sup>3</sup> ; 400 ppm
		USA: OSHA: TWA	980 mg/m <sup>3</sup> ; 400 ppm
67-64-1	Acetone	USA: ACGIH: STEL	500 ppm
		USA: ACGIH: TWA	250 ppm
		USA: NIOSH: TWA	590 mg/m <sup>3</sup> ; 250 ppm
		USA: OSHA: TWA	2400 mg/m <sup>3</sup> ; 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.  
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.



# SAFETY DATA SHEET

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

Revision date: Jan/2/2017

Version: 2

Language: en-US

Date of print: Jan/10/2017

## Brake Cleaner liquid

Material number 152010

Page:

6 of 10

### 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:	132.8 - 347 °F
Flash point/flash point range:	<= 50 °F
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 68 °F: 233 hPa
Vapor density:	No data available
Density:	at 68 °F: 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:	> 797 °F

## 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.
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



# SAFETY DATA SHEET

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

Revision date: Jan/2/2017

Version: 2

Language: en-US

Date of print: Jan/10/2017

## Brake Cleaner liquid

Material number 152010

Page: 7 of 10

### 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 - Category 2 = Causes skin irritation.

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

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

Skin sensitisation: Sensitization - skin - Category 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) - Category 3 = May cause drowsiness or dizziness.

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

Aspiration hazard: Aspiration Toxicity - Category 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

#### 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.



# SAFETY DATA SHEET

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

Revision date: Jan/2/2017

Version: 2

Language: en-US

Date of print: Jan/10/2017

## Brake Cleaner liquid

Material number 152010

Page: 8 of 10

### 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



#### 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





# SAFETY DATA SHEET

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

Revision date: Jan/2/2017

Version: 2

Language: en-US

Date of print: Jan/10/2017

## Brake Cleaner liquid

Material number 152010

Page: 9 of 10

### 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 - 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  
NIOSH Recommendations:  
Occupational Health Guideline: 0359

Acetone: 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\*



# SAFETY DATA SHEET

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

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

## Brake Cleaner liquid

Material number 152010

Page: 10 of 10

### 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

### National regulations - Great Britain

Hazchem-Code: •3YE

## 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

Reason of change:

ADR/RID 2017

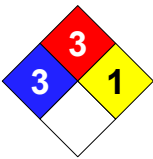
Date of first version:

Jun/28/2016

### 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.



HEALTH	3
FLAMMABILITY	3
PHYSICAL HAZARD	1
	X