
SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

9663 - Brake Cleaner 5L

Version 2.0 Revision Date 05.09.2014 Print Date 07.09.2014 GB / EN
Date of last issue:
02.10.2013
Date of first issue:
28.12.2009

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

1.1 Product identifier

Commercial Product Name : Brake Cleaner 5L
Product code : 9663

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

Use of the Substance/Mixture : Cleaning agent

1.3 Details of the supplier of the safety data sheet

Company : SCT-Vertriebs GmbH
Feldstr. 154
22589 Wedel
Germany
Telephone : +49 (0)4103 1211110
Telefax : +49 (0)4103 1211117

1.4 Emergency telephone number

National Chemical Emergency Centre
+44 (0)870 190 6777

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2	H225: Highly flammable liquid and vapour.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Specific target organ toxicity - single exposure, Category 3	H336: May cause drowsiness or dizziness.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

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Classification (67/548/EEC, 1999/45/EC)

Highly flammable

R11: Highly flammable.

Harmful

R65: Harmful: may cause lung damage if swallowed.

Irritant

R36/38: Irritating to eyes and skin.





Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67: Vapours may cause drowsiness and dizziness.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	   
Signal word	:	Danger
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.
Precautionary statements	:	Prevention: P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 Keep container tightly closed. Response: P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. P331 Do NOT induce vomiting. P362 + P364 Take off contaminated clothing and wash it before reuse. P370 + P378 In case of fire: Use alcohol-resistant foam, carbon dioxide or dry sand to extinguish.

Hazardous components which must be listed on the label:

- low boiling point hydrogen treated naphtha

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2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No.	Classification (67/548/EEC)	Classification (1272/2008/EC)	Concentration [%]
	EC-No.			
	Registration number			
low boiling point hydrogen treated naphtha	64742-49-0	F; R11 Xi; R38 N; R51/53 Xn; R65 R67	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 90 - < 100
	265-151-9			
isopropanol	67-63-0	F; R11 Xi; R36 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 2 - < 10
	200-661-7			

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.
- If inhaled : If breathed in, move person into fresh air. If symptoms persist, call a physician. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

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- In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water. Do NOT use solvents or thinners. If skin irritation persists, call a physician.
- In case of eye contact : Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- If swallowed : If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. If a person vomits when lying on his back, place him in the recovery position.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam, Carbon dioxide (CO₂), Dry chemical, Sand

Unsuitable extinguishing media : Water

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products may be formed under fire conditions (see section 10). Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Further information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Pay attention to

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flashback.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Remove all sources of ignition. Avoid contact with skin and eyes. Ensure adequate ventilation, especially in confined areas. Immediately evacuate personnel to safe areas. Avoid inhalation of vapour or mist. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. Avoid release to the environment. Refer to special instructions/ Safety data sheets.

6.3 Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Clean contaminated surface thoroughly.

6.4 Reference to other sections

see chapter: 7, 8, 11, 12 and 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Take precautionary measures against static discharges. Use appropriate container to avoid environmental contamination.

Advice on protection against fire and explosion : Normal measures for preventive fire protection. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Keep away from heat and sources of ignition. Do not smoke. No sparking tools should be used. Electrical equipment should be protected to the appropriate standard.

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Dust explosion class : Not applicable

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep away from direct sunlight. Keep away from heat.

Advice on common storage : Keep away from food, drink and animal feedingstuffs. Do not store together with oxidizing and self-igniting products.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Control parameters	Basis	Update
isopropanol	67-63-0	TWA: 999 mg/m ³ , 400 ppm STEL: 1.250 mg/m ³ , 500 ppm	GB EH40	2006-09-01

Other information on limit values: see chapter 16

8.2 Exposure controls

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
Respirator with filter type A

Hand protection

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Material : butyl-rubber
Glove thickness : > 0,45 mm
Break through time: : > 480 min

Material : Nitrile rubber
Glove thickness : > 0,45 mm
Break through time: : > 480 min

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection : Tightly fitting safety goggles

Skin and body protection : Flame retardant antistatic protective clothing.
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Avoid breathing vapours, mist or gas.
Avoid contact with skin, eyes and clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Follow the skin protection plan.
Take off all contaminated clothing immediately.
Wash contaminated clothing before re-use.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
Avoid release to the environment. Refer to special instructions/ Safety data sheets.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: colourless, clear
Odour	: hydrocarbon-like
Odour Threshold	: No data available
Flash point	: < -15 °C Method: closed cup
Ignition temperature	: 400 °C
Thermal decomposition	: No data available
Lower explosion limit	: 1,0 %(V)
Upper explosion limit	: 12,0 %(V)
Explosive properties	: No data available
Flammability	: No data available
Oxidizing properties	: No data available
Auto-ignition temperature	: No data available
Burning number	: No data available
Molecular weight	: No data available
pH	: No data available
Boiling point/boiling range	: 65 - 95 °C at 1.013,25 hPa
Vapour pressure	: 125 hPa at 20 °C
Density	: 0,687 g/cm ³ at 20 °C
Bulk density	: No data available
Water solubility	: < 100 g/l at 20 °C
Partition coefficient: n-octanol/water	: No data available
Solubility in other solvents	: completely soluble Medium: organic solvents
Viscosity, dynamic	: 0,5 mPa.s at 20 °C

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Viscosity, kinematic : No data available
Flow time : No data available
Impact sensitivity : No data available
Relative vapour density : No data available
Surface tension : No data available
Evaporation rate : No data available
Minimum ignition energy : No data available
Acid number : No data available
Refraction index : 1,378

Miscibility in water : No data available
Solvent separation test : No data available

9.2 Other information

None known.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Stability : No decomposition if stored and applied as directed.
Vapours may form explosive mixtures with air.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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Acute toxicity

Acute oral toxicity:

low boiling point hydrogen treated naphtha : LD50 Rat: > 5.000 mg/kg

isopropanol : LD50 Rat: 5.045 mg/kg

Acute inhalation toxicity:

low boiling point hydrogen treated naphtha : LC50 Rat: > 5,6 mg/l
Test atmosphere: vapour
Exposure time: 4 h
Method: OECD Test Guideline 403

isopropanol : LC50 Rat: 46,5 mg/l
Exposure time: 4 h

Acute dermal toxicity:

low boiling point hydrogen treated naphtha : LD50 Rat: > 2.000 mg/kg

isopropanol : LD50 Rabbit: 12.800 mg/kg

Acute toxicity (other routes of administration):

No data available

Skin corrosion/irritation

low boiling point hydrogen treated naphtha : Species: Rabbit
Irritating to skin.
Method: OECD Test Guideline 404

Serious eye damage/eye irritation

low boiling point hydrogen treated naphtha : Species: Rabbit
No eye irritation
Method: OECD Test Guideline 405

isopropanol : Irritating to eyes.

Respiratory or skin sensitisation

Sensitisation:

low boiling point hydrogen : Species: Guinea pig

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treated naphtha

Result: Does not cause skin sensitisation.
Method: OECD Test Guideline 406

Germ cell mutagenicity

Genotoxicity in vitro:

low boiling point hydrogen
treated naphtha

: Type: Ames test
Result: negative
Method: OECD Test Guideline 471

Genotoxicity in vivo:

low boiling point hydrogen
treated naphtha

: Test species: Rat
Result: negative

Carcinogenicity

Remarks

low boiling point hydrogen
treated naphtha

: Carcinogenicity:
Animal testing did not show any carcinogenic effects., Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

Mutagenicity:
In vivo tests did not show mutagenic effects, Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

Reproductive toxicity

low boiling point hydrogen
treated naphtha

: Note: No toxicity to reproduction

Teratogenicity

low boiling point hydrogen
treated naphtha

: Note: Animal testing did not show any effects on foetal development.

STOT - single exposure

low boiling point hydrogen
treated naphtha

: May cause drowsiness or dizziness.

isopropanol

: May cause drowsiness or dizziness.

STOT - repeated exposure

No data available

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Aspiration hazard

Aspiration toxicity

low boiling point hydrogen treated naphtha : May be fatal if swallowed and enters airways.

Neurological effects

No data available

Toxicology Assessment

Toxicology, Metabolism, Distribution

No data available

Acute effects

No data available

Further information

: Even the smallest quantities that enter into the lung due to swallowing or subsequent vomiting can lead to a pulmonary oedema or pneumonia.
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Aspiration hazard if swallowed - can enter lungs and cause damage.
Vapours may cause drowsiness and dizziness.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

low boiling point hydrogen treated naphtha : LC50 (Oncorhynchus mykiss (rainbow trout)): 8,2 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

isopropanol : LC50 (Pimephales promelas (fathead minnow)): 9.640 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates

low boiling point hydrogen treated naphtha : EC50 (Daphnia magna (Water flea)): 4,5 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

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isopropanol : EC50 (Daphnia magna (Water flea)): 13.299 mg/l
Exposure time: 48 h

Toxicity to algae

low boiling point hydrogen : EC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l
treated naphtha Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): > 0,01 - 0,1 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity)

low boiling point hydrogen : NOEC: 2,6 mg/l
treated naphtha Exposure time: 14 d
Species: Pimephales promelas (fathead minnow)
Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

low boiling point hydrogen : NOEC: 16 mg/l
treated naphtha Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

12.2 Persistence and degradability

Biodegradability

low boiling point hydrogen : Result: rapidly biodegradable
treated naphtha

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

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Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Advice on disposal and packaging : Disposal:
In accordance with local and national regulations. Do not dispose of waste into sewer. This material and its container must be disposed of in a safe way. Do not dispose of together with household waste. Waste codes should be assigned by the user based on the application for which the product was used.

The following Waste Codes are only suggestions:

Waste Code (EWC) : Waste Key (unused product):
140603, other solvents and solvent mixtures

Waste key (used product):
140603, other solvents and solvent mixtures

Disposal of uncleaned packaging : Waste key (uncleaned packaging):
150110, packaging containing residues of or contaminated by dangerous substances

Note: Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum. Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADR : 1993
RID : 1993
IMDG : 1993
IATA : 1993

14.2 Proper shipping name

ADR : FLAMMABLE LIQUID, N.O.S.
(low boiling point hydrogen treated naphtha)
RID : FLAMMABLE LIQUID, N.O.S.
(low boiling point hydrogen treated naphtha)
IMDG : FLAMMABLE LIQUID, N.O.S.
(low boiling point hydrogen treated naphtha)

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IATA : FLAMMABLE LIQUID, N.O.S.
(low boiling point hydrogen treated naphtha)

14.3 Transport hazard class(es)

ADR : 3
RID : 3
IMDG : 3
IATA : 3

14.4 Packing group

ADR
Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3
Limited quantity : 1,00 L
Tunnel restriction code : (D/E)

RID
Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3
Limited quantity : 1,00 L

IMDG
Packing group : II
Labels : 3
EmS Number : F-E, S-E

IATA
Packing instruction (cargo aircraft) : 364
Packing instruction (passenger aircraft) : 353
Packing instruction (LQ) : Y341
Packing group : II
Labels : 3

14.5 Environmental hazards

ADR
Environmentally hazardous : yes

RID
Environmentally hazardous : yes

IMDG
Marine pollutant : yes

IATA
Environmentally hazardous : no

14.6 Special precautions for user

see chapter: 6, 7 and 8

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

VOC	: Directive 1999/13/EC 100 % VOC content less water: 687 g/l		
Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances	: Update: 2003	Quantity 1	Quantity 2
	Highly flammable	5.000 t	50.000 t
	Update: 2003 Dangerous for the environment	200 t	500 t
	Update: 2003 Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams)	2.500 t	25.000 t
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	Update:		
	FLAMMABLE LIQUIDS	5.000 t	50.000 t
	Update: ENVIRONMENTAL HAZARDS	200 t	500 t

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Update:

Petroleum products: (a) gaso-
lines and naphthas, (b) kero-
senes (including jet fuels), (c)
gas oils (including diesel
fuels, home heating oils and
gas oil blending streams)

2.500 t

25.000 t

In accordance with Regulation (EC) No. 648/2004 on detergents : $\geq 30\%$: aliphatic hydrocarbons

National legislation

Other regulations : Take note of Dir 94/33/EC on the protection of young people at work.

Further information : Reserved for industrial and professional use.

15.2 Chemical Safety Assessment

No data available

SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3

R11	Highly flammable.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.

Full text of H-Statements referred to under sections 2 and 3.

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.

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
