

according to Regulation (EC) No. 1907/2006

0890108720 - Brake Cleaner

Version 1.0 Revision Date 04.10.2013 Print Date 06.10.2013 GB / EN

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Commercial Product Name : Brake Cleaner

Product code : 0890108720 MSDS-Identcode : 10037075

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

Use of the Substance/Mixture : Solvent

1.3 Details of the supplier of the safety data sheet

Company : Wurth UK Ltd

1 Centurion Way Erith, Kent United Kingdom +44 (0)3300 555 4

Telephone : +44 (0)3300 555 444 Telefax : +44 (0)3300 555 666

Company : WÜRTH IRELAND LTD.

Monaclinoe Ind. Est. Ballysimon Road

Limerick Ireland

Telephone : +353 61 430200 Telefax : +353 61 412428

Responsible/issuing person : E-mail address: prodsafe@wuerth.com

1.4 Emergency telephone number

National Chemical Emergency Centre

+44 (0)870 190 6777

2. Hazards identification

2.1 Classification of the substance or mixture

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

Highly flammable R11: Highly flammable.

Harmful R65: Harmful: may cause lung damage if swallowed.

Irritant R38: Irritating to 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.



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2.2 Label elements

Labelling according to EC Directives: 1999/45/EC

Hazard symbols :







Highly flammable

Harmful

Dangerous for the environment

R-phrase(s) : R11 Highly flammable. R38 Irritating to skin.

R51/53 Toxic to aquatic organisms, may cause long-

term adverse effects in the aquatic environ-

ment.

R65 Harmful: may cause lung damage if swallowed. R67 Vapours may cause drowsiness and dizziness.

S-phrase(s) : S16 Keep away from sources of ignition - No smok-

ina

S23 Do not breathe vapour.

S24/25 Avoid contact with skin and eyes.

S29/35 Do not empty into drains; dispose of this ma-

terial and its container in a safe way.

S33 Take precautionary measures against static

discharges.

S62 If swallowed, do not induce vomiting: seek

medical advice immediately and show this con-

tainer or label.

S61 Avoid release to the environment. Refer to

special instructions/ Safety data sheets.

Hazardous components which must be listed on the label:

low boiling point hydrogen treated naphtha

2.3 Other hazards

no data available

3. Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No.	Classification	Classification Classification	
	EC-No.	(67/548/EEC)	(1272/2008/EC)	[%]

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	Registration number			
low boiling point hydrogen treated naphtha	64742-49-0 265-151-9	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 - < 95
isopropanol	67-63-0 200-661-7	F; R11 Xi; R36 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 10 - < 12,5

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.

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 artifi-

cial respiration. If breathing is difficult, give oxygen.

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 a person vomits when lying on his back, place him in the recovery

position. If swallowed, do not induce vomiting: seek medical advice

immediately and show this container or label.

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



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5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO2), Dry powder, Water spray jet, Alcohol-resistant

foam

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefight-

ing

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

flashback.

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.



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6.4 Reference to other sections

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

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : 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. For personal protection see section 8. Use appropriate container to avoid envi-

ronmental 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.

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 away from heat. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Keep in an area equipped with solvent resistant

flooring.

Advice on common storage : Incompatible with oxidizing agents. Do not store near combustible

materials. Keep away from food, drink and animal feedingstuffs.

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

7.3 Specific end use(s)

no data available

8. Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Control parameters	Basis	Update
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Components	CAS-No.	Control parameters	Basis	Update
isopropanol	67-63-0	TWA: 999 mg/m3, 400 ppm STEL: 1.250 mg/m3, 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

Material : Nitrile rubber Rate of permeability : > 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.

<u>Eye protection</u> : Tightly fitting safety goggles

<u>Skin and body protection</u>: Flame retardant antistatic protective clothing

Safety shoes

Choose body protection according to the amount and concentration

of the dangerous substance at the work place.



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<u>Hygiene measures</u>: Handle in accordance with good industrial hygiene and safety prac-

tice.

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.

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 respec-

tive authorities.

Avoid release to the environment. Refer to special instructions/ Safe-

ty data sheets.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid
Colour : colourless
Odour : characteristic
Odour Threshold : no data available

Flash point : < 0 °C

Ignition temperature : 275 °C

Thermal decomposition : no data available

Lower explosion limit : no data available Upper explosion limit : no data available Explosive properties : Not explosive

In use, may form flammable/explosive vapour-air mixture.

Flammability : no data available
Oxidizing properties : no data available
Auto-ignition temperature : not auto-flammable
Burning number : no data available
Molecular weight : no data available
pH : not applicable

Boiling point/boiling range : > 80 °C

Vapour pressure : ca. 40 hPa at 20 °C



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Density : no data available
Bulk density : no data available
Water solubility : partly miscible

Partition coefficient: n- : no data available

octanol/water

Solubility in other solvents no data available Viscosity, dynamic no data available 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 : no data available Evaporation rate Minimum ignition energy : no data available Acid number : no data available : no data available Refraction index Miscibility in water : no data available Solvent separation test : no data available

9.2 Other information

None known.

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 : Strong oxidizing agents, Combustible material

10.6 Hazardous decomposition products

Hazardous decomposition prod: :

: Carbon oxides

ucts



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11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity:

isopropanol : LD50 rat: 5.045 mg/kg

Acute inhalation toxicity:

isopropanol : LC50 rat: 46,5 mg/l

Exposure time: 4 h

Acute dermal toxicity:

isopropanol : LD50 rabbit: 12.800 mg/kg

Acute toxicity (other routes of administration):

no data available

Skin corrosion/irritation

Skin irritation : Skin irritation

Irritating to skin.

Prolonged skin contact may defat the skin and produce dermatitis.

Serious eye damage/eye irritation

isopropanol : Irritating to eyes.

Respiratory or skin sensitisation

Sensitisation:

no data available

Germ cell mutagenicity

Genotoxicity in vitro:

no data available

Genotoxicity in vivo:

no data available

Carcinogenicity

no data available



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Reproductive toxicity

no data available

Teratogenicity

no data available

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

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 : May cause irritation of the mucous membranes.

Symptoms of overexposure may be headache, dizziness, tiredness,

nausea and vomiting.

Aspiration hazard if swallowed - can enter lungs and cause damage. Even the smallest quantities that enter into the lung due to swallowing or subsequent vomiting can lead to a pulmonary oedema or

pneumonia.

12. Ecological information

12.1 Toxicity



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Toxicity to fish

isopropanol : LC50 (Pimephales promelas (fathead minnow)): 9.640 mg/l

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates

isopropanol : EC50 (Daphnia magna (Water flea)): 13.299 mg/l

Exposure time: 48 h

Ecotoxicology Assessment

Acute aquatic toxicity

low boiling point hydrogen

treated naphtha

: Toxic to aquatic life.

Chronic aquatic toxicity

low boiling point hydrogen

treated naphtha

: Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

Adsorbed organic bound halo-

Remarks:

gens (AOX)

not included

Additional ecological information

The product should not be allowed to enter drains, water courses or

the soil.

13. Disposal considerations

13.1 Waste treatment methods



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Advice on disposal and packag-

ing

Disposal:

In accordance with local and national regulations. Do not dispose of waste into sewer. This material and its container must be disposed of as hazardous waste. Do not dispose of together with household

waste.

Waste codes should be assigned by the user based on the applica-

tion for which the product was used.

The following Waste Codes are only suggestions:

Waste Code (EWC) : Waste Key (unused product):

070104, other organic solvents, washing liquids and mother liquors

Waste key (used product):

070104, other organic solvents, washing liquids and mother liquors

Disposal of uncleaned packag-

ing

Waste key (uncleaned packaging):

150110, packaging containing residues of or contaminated by dan-

gerous 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.

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.

(naphtha (petroleum), hydrotreated light)

RID : FLAMMABLE LIQUID, N.O.S.

(naphtha (petroleum), hydrotreated light)

IMDG : FLAMMABLE LIQUID, N.O.S.

(naphtha (petroleum), hydrotreated light)

IATA : FLAMMABLE LIQUID, N.O.S.

(naphtha (petroleum), hydrotreated light)

14.3 Transport hazard class(es)

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

14.4 Packing group

ADR

Packing group : II



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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 air- : 364

craft)

Packing instruction (passenger : 353

aircraft)

Packing instruction (LQ) : Y341
Packing group : II
Labels : 3

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

Special Provision 640D

RID

Environmentally hazardous : yes

Special Provision 640D

IMDG

Marine pollutant : yes

IATA

Environmentally hazardous : no

14.6 Special precautions for user

see chapter: 6, 7 and 8

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

Not applicable for product as supplied.

15. Regulatory information

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



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VOC Directive 1999/13/EC

VOC content less water: 730 g/l

Directive (96/82/EC) : Update: 2003 Quantity 1 Quantity 2

Highly flammable 5.000 t 50.000 t

Update: 2003

Dangerous for the environ-200 t 500 t

ment

Update: 2003

Petroleum products: (a) gaso-2.500 t 25.000 t

lines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams)

In accordance with Regulation

(EC) No. 648/2004 on deter-

gents

>= 30 %: aliphatic hydrocarbons

Further information : Reserved for industrial and professional use.

15.2 Chemical Safety Assessment

no data available

16. Other information

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

Highly flammable. R11 R36 Irritating to eyes. R38 Irritating to skin.

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

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.

May be fatal if swallowed and enters airways. H304

H315 Causes skin irritation.

Causes serious eye irritation. H319 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.

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