



Material Safety Data Sheet

Brake & Parts Cleaner

Version 1.1

Revision Date 05/03/2006

Print Date 01/11/2007

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Brake & Parts Cleaner
Product Number : 1890991074, 189099107
MSDS Number : 888100004538

Product Use Description : cleaning agent

Company : WURTH USA Inc.
93 Grant Street
Ramsey, NJ 07446 US

Telephone : 1-800-987-8487 8:00am to 8:00pm EST
Telefax : 1-201-818-4788
Emergency telephone : 1-800-255-3924
number

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Regulatory status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Signal Word : DANGER

Form : aerosol

Odour : solvent

Odour - Control : no data available
parameters

Hazard Summary : May cause fire.
Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C / 122 °F.

Irritant
Flammable Aerosol

Potential Health Effects



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Eyes : May cause eye irritation.

Skin : May cause skin irritation.

Target Organs : Eyes
Skin

Carcinogenicity:

NTP : No component of this product which is present at levels greater than or equal to 0.1 % is identified as a known or anticipated carcinogen by NTP.

IARC : No component of this product which is present at levels greater than or equal to 0.1 % is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA : No component of this product which is present at levels greater than or equal to 0.1 % is identified as a carcinogen or potential carcinogen by OSHA.

CA Prop 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other reproductive harm.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Weight %
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heptane (and isomers)	142-82-5	>= 90 - < 95
ethanol; ethyl alcohol	64-17-5	>= 7 - < 10
propan-2-ol; isopropyl alcohol; isopropanol	67-63-0	>= 7 - < 10
Carbon dioxide	124-38-9	>= 5 - < 7

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area. Never give anything by mouth to an unconscious person. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). When symptoms persist or in all cases of doubt seek medical advice. Take off all contaminated clothing immediately.
- Inhalation : Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
- Skin contact : Wash off immediately with soap and plenty of water. Do NOT use solvents or thinners. If skin irritation persists, call a physician.
- Eye contact : Remove contact lenses. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
- Ingestion : If a person vomits when lying on his back, place him in the recovery position. If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

SECTION 5. FIRE-FIGHTING MEASURES

- Form : aerosol
- Lower explosion limit : Note: no data available
- Upper explosion limit : Note: no data available



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- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Extinguishing media which must not be used for safety reasons : high volume water jet
- Specific hazards during fire fighting : Do not use a solid water stream as it may scatter and spread fire.
- Special protective equipment for fire-fighters : Use personal protective equipment.
Wear self contained breathing apparatus for fire fighting if necessary.
- Further information : Use water spray to cool unopened containers.
Exposure to decomposition products may be a hazard to health.
Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Ventilate the area.
Remove all sources of ignition.
Avoid inhalation of vapour or mist.
- Environmental precautions : Should not be released into the environment.
Avoid subsoil penetration.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods for cleaning up : Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous



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earth, vermiculite) and place in container for disposal according to local / national regulations.

CERCLA Hazardous substances and corresponding RQs	: 142-82-5	100 lbs <i>final RQ</i>
	64-17-5	100 lbs <i>final RQ</i>
	67-63-0	100 lbs <i>final RQ</i>

SECTION 7. HANDLING AND STORAGE

Handling

- Handling :
- Do not breathe vapours or spray mist.
 - Avoid contact with skin and eyes.
 - Take precautionary measures against static discharges.
 - Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.
 - Limit the stocks at work place.
 - Do not spray on a naked flame or any other incandescent material.
 - Use only in well-ventilated areas.

Advice on protection against fire and explosion

- :
- Keep away from heat and sources of ignition.
 - Do not smoke.
 - Vapours may form explosive mixtures with air.
 - Vapours are heavier than air and may spread along floors.
 - Electrical equipment should be protected to the appropriate standard.

Dust explosion class

- :
- not applicable

Storage



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Requirements for storage : BEWARE: Aerosol is pressurized. Keep away from direct areas and containers sun exposure and temperatures over 50 °C / 122 °F. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Please observe the storage instructions for aerosols

Advice on common storage : Keep away from food, drink and animal feedingstuffs. Keep away from oxidising agents and strongly acid or alkaline materials.

Storage period : 24 Months

Storage temperature : 5 - 30 °C (41 - 86 °F)

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

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Components	CAS-No.	List	Type:	Value
heptane [and isomers]	142-82-5	ACGIH	TWA	400 ppm
		ACGIH	STEL	500 ppm
		NIOSH	REL	85 ppm 350 mg/m3
		NIOSH	Cell_Tlme	440 ppm 1,800 mg/m3
		OSHA Z1	PEL	500 ppm 2,000 mg/m3
		OSHA Z1A	TWA	400 ppm 1,600 mg/m3
		OSHA Z1A	STEL	500 ppm 2,000 mg/m3
		US CA OEL	TWA PEL	400 ppm 1,600 mg/m3
ethanol: ethyl alcohol	64-17-5	US CA OEL	STEL	500 ppm 2,000 mg/m3
		ACGIH	TWA	1,000 ppm
		NIOSH	REL	1,000 ppm 1,900 mg/m3
		OSHA Z1	PEL	1,000 ppm 1,900 mg/m3



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		OSHA Z1A	TWA	1,000 ppm	1,900 mg/m ³
		US CA OEL	TWA PEL	1,000 ppm	1,900 mg/m ³
propan-2-ol; isopropyl alcohol; isopropanol	67-63-0	ACGIH	TWA	200 ppm	
		ACGIH	STEL	400 ppm	
		NIOSH	REL	400 ppm	980 mg/m ³
		NIOSH	STEL	500 ppm	1,225 mg/m ³
		OSHA Z1	PEL	400 ppm	980 mg/m ³
		OSHA Z1A	TWA	400 ppm	980 mg/m ³
		OSHA Z1A	STEL	500 ppm	1,225 mg/m ³
		US CA OEL	TWA PEL	400 ppm	980 mg/m ³
		US CA OEL	STEL	500 ppm	1,225 mg/m ³
Carbon dioxide	124-38-9	ACGIH	TWA	5,000 ppm	
		ACGIH	STEL	30,000 ppm	
		NIOSH	REL	5,000 ppm	9,000 mg/m ³
		NIOSH	STEL	30,000 ppm	54,000 mg/m ³
		OSHA Z1	PEL	5,000 ppm	9,000 mg/m ³
		OSHA Z1A	TWA	10,000 ppm	18,000 mg/m ³
		OSHA Z1A	STEL	30,000 ppm	54,000 mg/m ³
		US CA OEL	TWA PEL	5,000 ppm	9,000 mg/m ³
		US CA OEL	STEL	30,000 ppm	54,000 mg/m ³

Engineering measures : Provide adequate ventilation.

Eye protection : safety glasses

Hand protection : 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.

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- Skin and body protection : impervious clothing
- Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.
- Hygiene measures : Do not inhale aerosol.
When using, do not eat, drink or smoke.
Avoid contact with skin, eyes and clothing.
Wash hands before breaks and at the end of workday.
Wash contaminated clothing before re-use.
Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : aerosol
- Odour : solvent
- Thermal decomposition : Heating can release hazardous gases., Fire or intense heat may cause violent rupture of packages.
- Lower explosion limit : no data available
- Upper explosion limit : no data available
- pH : no data available
- Boiling point/range : no data available
- Vapour pressure : no data available
- Water solubility : insoluble



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Volatile organic compounds (VOC) content : 100 %

SECTION 10. STABILITY AND REACTIVITY

- Conditions to avoid : Heat, flames and sparks.
Exposure to light.
Protect from frost, heat and sunlight.
- Materials to avoid : strong acids and strong bases
oxidizing agents
- Hazardous decomposition products : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.
- Thermal decomposition : Heating can release hazardous gases., Fire or intense heat may cause violent rupture of packages.
- Hazardous reactions : Vapours may form explosive mixture with air.
Hazardous polymerisation does not occur.
Note: No decomposition if used as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

- Skin irritation : Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in desiccation of the skin.
- Eye irritation : The liquid splashed in the eyes may cause irritation and reversible damage.
Strong lachrymation can make it difficult to escape
- Sensitization : No known sensitising effect.
- Carcinogenicity : No data is available on the product itself.



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- Toxicity to reproduction : No data is available on the product itself.
Teratogenicity : No data is available on the product itself.
Further information : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Liver and kidney injuries may occur.
Even the smallest quantities that enter into the lung due to swallowing or subsequent vomiting can lead to a pulmonary oedema or pneumonia.

Component:

heptane [and isomers]

142-82-5

Acute oral toxicity LD50 rat
Dose: > 15,000 mg/kg

Acute inhalation toxicity LC50 rat
Dose: 103 g/m³
Exposure time: 4 h

Skin irritation Classification: Irritating to skin.
Result: Skin irritation
Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Eye irritation Classification: Irritating to eyes.
Result: Mild eye irritation

ethanol; ethyl alcohol

64-17-5

Acute oral toxicity LD50 rat
Dose: 6,200 mg/kg

Acute dermal toxicity LD50 rabbit
Dose: < 20,000 mg/kg

Acute inhalation toxicity LC50 rat
Dose: > 8,000 mg/l
Exposure time: 4 h

Skin irritation Classification: Irritating to skin.
Result: Mild skin irritation
Prolonged skin contact may cause skin irritation and/or dermatitis.



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propan-2-ol; isopropyl alcohol; 67-63-0
isopropanol

Eye irritation: Classification: Irritating to eyes.

Result: Mild eye irritation

Mild eye irritation

Acute oral toxicity: LD50 rat

Dose: 5,045 mg/kg

Acute dermal toxicity: LD50 rabbit

Dose: 12,800 mg/kg

Acute inhalation toxicity: LC50 rat

Dose: 46.5 mg/l

Exposure time: 4 h

Skin irritation: Classification: Irritating to skin.

Result: Mild skin irritation

Eye irritation: Classification: Irritating to eyes.

Result: Moderate eye irritation

SECTION 12. ECOLOGICAL INFORMATION

Biodegradability : no data available

Adsorbed organic bound : not included
halogens (AOX)

Volatile organic : 100 %
compounds (VOC)
content

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

Component:

heptane [and isomers]

142-82-5

Toxicity to fish:

LC50

Species: Carassius auratus (goldfish)

Dose: 4 mg/l

Exposure time: 24 h



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Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species Daphnia magna (Water flea)

Dose: 1.5 mg/l

Exposure time: 48 h

ethanol; ethyl alcohol

64-17-5

Toxicity to fish:

LC50

Species Leuciscus idus (Golden orfe)

Dose: 8,140 mg/l

Exposure time: 48 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species Daphnia magna (Water flea)

Dose: 9,268 - 14,221 mg/l

Exposure time: 48 h

propan-2-ol; isopropyl alcohol; isopropanol 67-63-0

Toxicity to fish:

LC50

Species Pimephales promelas (fathead minnow)

Dose: 9,640 mg/l

Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species Daphnia magna (Water flea)

Dose: 13,299 mg/l

Exposure time: 48 h

SECTION 13. DISPOSAL CONSIDERATIONS

Adequate disposal : In accordance with local and national regulations.
Please ensure aerosol cans are sprayed completely empty (including propellant)
Containers that have not been emptied in compliance with regulations are regarded as hazardous waste.

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SECTION 14. TRANSPORT INFORMATION**DOT 49 CFR**

Proper shipping name : AEROSOLS
UN-No : 1950
Class : 2.1
Packing group :
Emergency Response : 126
Guidebook Number

TDGR

Proper shipping name : AEROSOLS
UN-No : 1950
Class : 2.1
Packing group :
Emergency Response : 126
Guidebook Number

ICAO / IATA-DGR

UN UN-No : 1950
Description of the goods : AEROSOLS
Class : 2.1
ICAO-Labels : 2.1
Packing instruction (cargo aircraft) : 203
Packing instruction (passenger aircraft) : 203
Packing instruction (passenger aircraft) : Y203

IMDG-Code

UN-No : UN 1950
Description of the goods : AEROSOLS
Class : 2.1
IMO-Labels : 2.1



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EmS Number : F-D S-U
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Flammable Aerosol
Moderate skin irritant
Moderate eye irritant

TSCA Status : On TSCA Inventory

DSL Status : All components of this product are on the Canadian DSL list.

SARA 313 Components : propan-2-ol; isopropyl alcohol; 67-63-0 isopropanol

SARA 311/312 Hazards : Acute Health Hazard
Fire Hazard

PENN RTK US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

Components	CAS-No.
heptane [and isomers]	142-82-5
ethanol; ethyl alcohol	64-17-5
propan-2-ol; isopropyl alcohol; isopropanol	67-63-0
Carbon dioxide	124-38-9

MASS RTK US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

Components	CAS-No.
heptane [and isomers]	142-82-5



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Table with 2 columns: Component Name and CAS No. Rows include ethanol; ethyl alcohol, propan-2-ol; isopropyl alcohol; isopropanol, and Carbon dioxide.

NJ RTK

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

Table with 2 columns: Components and CAS-No. Rows include heptane [and isomers], ethanol; ethyl alcohol, propan-2-ol; isopropyl alcohol; isopropanol, and Carbon dioxide.

SARA III

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

Table with 2 columns: Components and CAS-No. Row includes propan-2-ol; isopropyl alcohol; isopropanol.

California Prop. 65

: This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other reproductive harm.

SECTION 16. OTHER INFORMATION

Further information

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.

Prepared by : GWU mbH



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Birlenbacher Str. 18
D-57078 Siegen
Germany
Telephone: +49-(0)271-88072-0

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