



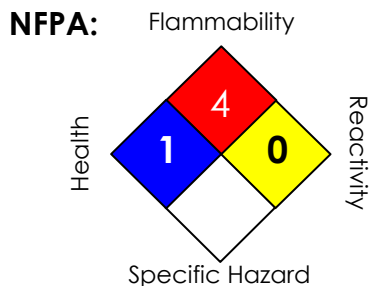
Material Safety Data Sheet

Brake & Parts Cleaner 408gr

Version 1.2

Revision Date 06/23/2010

Print Date 06/26/2010



HMIS III:

HEALTH	2
FLAMMABILITY	4
PHYSICAL	0

0 = Insignificant, 1 = Slight,
2 = Moderate, 3 = High, 4 = Extreme

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Commercial Product Name : Brake & Parts Cleaner 408gr
Product code : 08909107
MSDS-Identcode : 10004012
Product Use Description : Cleaning agent
Company : Würth Canada Limited
6330 Tomken Road Mississauga
Ontario L5T 1N2
Canada
Telephone : +1 (905) 564 6225
Telefax : +1 (905) 564 3671
Responsible/issuing person : prodsafe.wurth@technidata.com
Emergency telephone : In case of emergency please contact: CANUTEC (5:00 pm - 8:00 am):
+1 (613) 996 6666
WÜRTH CANADA LIMITED (8:00 am - 5:00 pm):
+1 (905) 564 6225

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Regulatory status : This product, material or substance is a WHMIS controlled product per Sections 33 - 66, Part IV of the CPR.

Signal Word : DANGER
Form : aerosol
Odour : characteristic



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Odour - Control parameters : no data available
Hazard Summary : Flammable aerosol
Compressed gas
May cause fire.
Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C / 122 °F.

Irritant

Potential Health Effects

Eyes : May cause eye irritation.
Skin : May cause skin irritation.
Inhalation : May cause respiratory tract irritation.
Target Organs : Eyes
Skin
Respiratory system

Carcinogenicity:

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

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



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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 percent- Weight percent
heptane [and isomers]	142-82-5	>= 90 - < 95
propan-2-ol	67-63-0	>= 3 - < 5
carbon dioxide	124-38-9	>= 3 - < 5

SECTION 4. FIRST AID MEASURES

General advice : If you feel unwell, seek medical advice (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.

Inhalation : If breathed in, move person into fresh air. In the case of inhalation of aerosol/mist consult a physician if necessary. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

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. Wash off with polyethylene glycol and afterwards with plenty of water.

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.

Ingestion : If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position.

SECTION 5. FIRE-FIGHTING MEASURES

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



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- Upper explosion limit : Note: no data available
- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : 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.
- Special protective equipment for fire-fighters : 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.
If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : 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.



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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.

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.

Methods for 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.

SECTION 7. HANDLING AND STORAGE

Handling

Handling : For personal protection see section 8. Limit the stocks at work place. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Do not spray on a naked flame or any other incandescent material. 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



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appropriate standard.

Dust explosion class : not applicable

Storage

Requirements for storage areas and containers : Store in original container. BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Keep containers tightly closed in a dry, cool and well-ventilated place. Please observe the storage instructions for aerosols!

Advice on common storage : Keep away from oxidising agents and strongly acid or alkaline materials.

Storage temperature : < 40 °C (< 104 °F)

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components	CAS-No.	List	Type:	Value	Update
heptane [and isomers]	142-82-5	CA BC OEL	TWA	400 ppm	2006-11-29
		CA BC OEL	STEL	500 ppm	2006-11-29
		CA ON OEL	TWAEV	400 ppm 1,635 mg/m3	2005-12-17
		CA ON OEL	STEV	500 ppm 2,045 mg/m3	2005-12-17
		CA QC OEL	TWAEV	400 ppm 1,640 mg/m3	2006-12-29
		CA QC OEL	STEV	500 ppm 2,050 mg/m3	2006-12-29
propan-2-ol	67-63-0	CA AB OEL	STEL	500 ppm 1,230 mg/m3	2004-04-30
		CA AB OEL	TWA	400 ppm 983 mg/m3	2004-04-30
		CA AB OEL	STEL	400 ppm 984 mg/m3	2009-04-30
		CA AB OEL	TWA	200 ppm 492 mg/m3	2009-04-30
		CA BC OEL	TWA	200 ppm	2006-11-29
		CA BC OEL	STEL	400 ppm	2006-11-29
		CA ON OEL	TWAEV	200 ppm	2005-12-17



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		CA ON OEL	STEV	400 ppm	2005-12-17
		CA QC OEL	TWAEV	400 ppm 983 mg/m3	2006-12-29
		CA QC OEL	STEV	500 ppm 1,230 mg/m3	2006-12-29
carbon dioxide	124-38-9	CA AB OEL	STEL	30,000 ppm 54,000 mg/m3	2007-01-01
		CA AB OEL	TWA	5,000 ppm 9,000 mg/m3	2007-01-01
		CA BC OEL	TWA	5,000 ppm	2006-11-29
		CA BC OEL	STEL	15,000 ppm	2006-11-29
		CA ON OEL	TWAEV	5,000 ppm 9,000 mg/m3	2005-12-17
		CA ON OEL	STEV	30,000 ppm 54,000 mg/m3	2005-12-17
		CA QC OEL	TWAEV	5,000 ppm 9,000 mg/m3	2006-12-29
		CA QC OEL	STEV	30,000 ppm 54,000 mg/m3	2006-12-29

- Engineering measures : Provide sufficient air exchange and/or exhaust in work rooms.
- Eye protection : Tightly fitting safety goggles
- Hand protection
Glove material : Neoprene
- 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.
- Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Do not inhale aerosol.
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.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: aerosol
Odour	: characteristic
Lower explosion limit	: no data available
Upper explosion limit	: no data available
pH	: no data available
Boiling point/boiling range	: 94 °C(201 °F)
Vapour pressure	: no data available
Density	: 0.74 g/cm ³ at 15 °C (59 °F)
Water solubility	: insoluble

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: Heat, flames and sparks.
Materials to avoid	: Strong acids and strong bases Oxidizing agents
Hazardous decomposition products	: Carbon dioxide (CO ₂), carbon monoxide (CO), oxides of nitrogen (NO _x), dense black smoke.
Hazardous reactions	: Note: No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Carcinogenicity	: No data is available on the product itself.
Reproductive toxicity	: 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. Vapours may cause drowsiness and dizziness. Aspiration hazard if swallowed - can enter lungs and cause damage.



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Inhalation of mist causes irritation of respiratory system.

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

propan-2-ol

67-63-0

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

Adsorbed organic bound : not included
halogens (AOX)

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

Acute and prolonged toxicity for aquatic invertebrates:



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EC50

Species: Daphnia magna (Water flea)

Dose: 1.5 mg/l

Exposure time: 48 h

propan-2-ol

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.
This material and its container must be disposed of as hazardous waste.

SECTION 14. TRANSPORT INFORMATION

DOT 49 CFR

ID No : UN 1950
Proper shipping name : Aerosols
Class : 2.1
Labels : 2.1
Emergency Response : 126
Guidebook Number

TDGR

ID No : UN 1950
Proper shipping name : AEROSOLS
Class : 2.1
Labels : 2.1

ICAO/IATA-DGR

ID No : UN 1950
Proper shipping name : Aerosols, flammable
Class : 2.1
ICAO-Labels : 2.1



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Packing instruction (cargo : 203
aircraft)
Packing instruction : 203
(passenger aircraft)
Packing instruction : Y203
(passenger aircraft)
Environmentally hazardous : no

IMDG-Code

ID No : UN 1950
Description of the goods : AEROSOLS
(heptane [and isomers])
Class : 2.1
IMDG-Labels : 2.1
EmS Number 1 : F-D
EmS Number 2 : S-U
Marine pollutant : yes

SECTION 15. REGULATORY INFORMATION

WHMIS Classification : D2B Toxic Material Causing Other Toxic Effects
Moderate skin irritant
Moderate eye irritant
Moderate respiratory irritant

B5 Flammable aerosol
Flammable aerosol

A Compressed Gas
Compressed Gas

D2B Toxic Material Causing Other Toxic Effects
Moderate skin irritant
Mild respiratory irritant
Moderate eye irritant

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.



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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. 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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Revision Date : 06/23/2010