

## Safety Data Sheet

**Brake & Parts Cleaner (Aerosol)**

Version 5.0

Revision Date 11/06/2014

Print Date 11/09/2014

**SECTION 1. IDENTIFICATION**

Commercial Product Name : Brake & Parts Cleaner (Aerosol)  
Product number : 189099107  
SDS-Identcode : 10042869  
Product Use Description : Cleaning agent  
Company : Wurth USA Inc.  
93 Grant St.  
07446 Ramsey, NJ  
USA  
Telephone : +1 201 825 27 10  
Telefax : +1 201 825 16 43  
Responsible/issuing person : prodsafe@wuerth.com  
Emergency telephone number : +1 800 255 3924

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Flammable aerosols : Category 1  
Gases under pressure : Compressed gas  
Skin irritation : Category 2  
Specific target organ toxicity - single exposure : Category 3 (Central nervous system)  
Aspiration hazard : Category 1

**GHS Label element**

Hazard pictograms :



Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.

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H280 Contains gas under pressure; may explode if heated.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.

## Precautionary statements

: **Prevention:**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Pressurized container: Do not pierce or burn, even after use.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves.

**Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No.	Weight percent- Weight percent
n-heptane	142-82-5	>= 70 - < 90
isopropanol	67-63-0	>= 5 - < 10
ethanol	64-17-5	>= 5 - < 10
Carbon dioxide	124-38-9	>= 5 - < 10

**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 : Wash off with soap and water. Do NOT use solvents or thinners. If skin irritation persists, call a physician.
- 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, DO NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position. Get medical attention.

**Notes to physician**

- Treatment : Treat symptomatically and supportively.

**SECTION 5. FIREFIGHTING MEASURES**

- Form : Aerosol containing a compressed gas  
Suitable extinguishing : Foam

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media	Dry chemical Carbon dioxide (CO <sub>2</sub> )
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.
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. 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. Avoid inhalation of vapour or mist. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Immediately evacuate personnel to safe areas.
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- 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.

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**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 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 appropriate standard.

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Dust explosion class : Not applicable

**Storage**

Requirements for storage areas and containers : Store in original container.  
 BEWARE: Aerosol is pressurized. Keep away from heat. Keep away from direct sunlight. 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 : Incompatible with oxidizing agents.  
 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.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Exposure Guidelines**

Components	CAS-No.	List	Type:	Value	Update
n-heptane	142-82-5	NIOSH REL	TWA	85 ppm 350 mg/m3	2013-10-08
		NIOSH REL	C	440 ppm 1,800 mg/m3	2013-10-08
		OSHA Z-1	TWA	500 ppm 2,000 mg/m3	1997-08-04
		ACGIH	TWA	400 ppm	2013-03-01
		ACGIH	STEL	500 ppm	2013-03-01
		OSHA P0	TWA	400 ppm 1,600 mg/m3	1989-01-19
isopropanol	67-63-0	OSHA P0	STEL	500 ppm 2,000 mg/m3	1989-01-19
		ACGIH	TWA	200 ppm	2013-03-01
		ACGIH	STEL	400 ppm	2013-03-01
		OSHA Z-1	TWA	400 ppm 980 mg/m3	1997-08-04
		NIOSH REL	TWA	400 ppm 980	2013-10-08

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				mg/m <sup>3</sup>	
		NIOSH REL	ST	500 ppm 1,225 mg/m <sup>3</sup>	2013-10-08
		OSHA P0	TWA	400 ppm 980 mg/m <sup>3</sup>	1989-01-19
		OSHA P0	STEL	500 ppm 1,225 mg/m <sup>3</sup>	1989-01-19
ethanol	64-17-5	OSHA Z-1	TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	1997-08-04
		NIOSH REL	TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	2013-10-08
		OSHA P0	TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	1989-01-19
		ACGIH	STEL	1,000 ppm	2013-03-01
Carbon dioxide	124-38-9	ACGIH	TWA	5,000 ppm	2007-01-01
		ACGIH	STEL	30,000 ppm	2007-01-01
		OSHA Z-1	TWA	5,000 ppm 9,000 mg/m <sup>3</sup>	1997-08-04
		NIOSH REL	TWA	5,000 ppm 9,000 mg/m <sup>3</sup>	2013-10-08
		NIOSH REL	ST	30,000 ppm 54,000 mg/m <sup>3</sup>	2013-10-08
		OSHA P0	TWA	10,000 ppm 18,000 mg/m <sup>3</sup>	1989-01-19
		OSHA P0	STEL	30,000 ppm 54,000 mg/m <sup>3</sup>	1989-01-19

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

Eye protection : Tightly fitting safety goggles

Hand protection

Glove material : Neoprene

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.

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

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respirators.  
Product contains low-boiling liquids. Respiratory protective equipment must be air supplied 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.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Form : Aerosol containing a compressed gas  
Physical state : aerosol

Colour : clear  
Odour : solvent-like  
Odour Threshold : No data available  
Flash point : No data available  
Ignition temperature : No data available  
Thermal decomposition : No data available  
Lower explosion limit : No data available

Upper explosion limit : No data available

Flammability : Extremely flammable aerosol.

Molecular weight : No data available  
pH : Not applicable

Boiling point/boiling range : Not applicable

Vapour pressure : Not applicable

Relative vapour density : No data available

Evaporation rate : No data available  
Density : 0.70 g/cm<sup>3</sup>



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Relative density	: No data available
Bulk density	: No data available
Water solubility	: insoluble
Partition coefficient: n-octanol/water	: No data available
Solubility in other solvents	: No data available
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Volatile organic compounds (VOC) content	: 95.0 % 618 g/l

**SECTION 10. STABILITY AND REACTIVITY**

Conditions to avoid	: Heat, flames and sparks.
Materials to avoid	: Strong oxidizing agents
Hazardous decomposition products	: Carbon monoxide Carbon dioxide (CO <sub>2</sub> )  Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.
Hazardous reactions	: Note: No decomposition if stored and applied as directed.  Vapours may form explosive mixtures with air. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

**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,

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tiredness, nausea and vomiting.  
Vapours may cause drowsiness and dizziness.

**Component:**

n-heptane

142-82-5

Acute oral toxicity: LD50 Rat

Dose: &gt; 5,000 mg/kg

Method: OECD Test Guideline 401

Acute dermal toxicity: LD50 Rabbit

Dose: &gt; 2,000 mg/kg

Method: OECD Test Guideline 402

Acute inhalation toxicity: LC50 Rat

Dose: &gt; 29.29 mg/l/Exposure time: 4 h

Method: OECD Test Guideline 403

Skin irritation: Rabbit

Result: irritating

Method: OECD Test Guideline 404

Eye irritation: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

isopropanol

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

Eye irritation: Result: Irritating to eyes.

Carbon dioxide

124-38-9

Acute inhalation toxicity: LC50 Rat

Dose: 58750 ppm

Exposure time: 4 h

**Carcinogenicity:****ACGIH**

ethanol

64-17-5

**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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<b>NTP</b>	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.
<b>IARC</b>	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.

**SECTION 12. ECOLOGICAL INFORMATION**

Volatile organic compounds (VOC) content	: 95.0 %
Additional ecological information	: The product should not be allowed to enter drains, water courses or the soil.

**Component:**

n-heptane	142-82-5	<u>Toxicity to fish:</u> LC50 Species: Dose: 5.738 mg/l Exposure time: 96 h Calculation <u>Acute and prolonged toxicity for aquatic invertebrates:</u> EC50 Species: Daphnia magna (Water flea) Dose: 1.5 mg/l Exposure time: 48 h  <u>Toxicity to algae:</u> EC50 Species: Dose: 4.338 mg/l Exposure time: 72 h Calculation <u>Toxicity to algae:</u> NOEC Species: Dose: 0.97 mg/l Exposure time: 72 h Calculation <u>Toxicity to bacteria:</u> EC50 Species: Bacteria Dose: 22.6 mg/l
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		Exposure time: 48 h Calculation <u>Toxicity to bacteria:</u> NOEC Species: Bacteria Dose: 5,057 mg/l Exposure time: 48 h Calculation
isopropanol	67-63-0	<u>Toxicity to fish:</u> LC50 Species: Pimephales promelas (fathead minnow) Dose: 9,640 mg/l Exposure time: 96 h  <u>Acute and prolonged toxicity for aquatic invertebrates:</u> 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**

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ID No : UN 1950  
Proper shipping name : Aerosols, flammable  
Class : 2.1  
ICAO-Labels : 2.1  
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  
  
Class : 2.1  
IMDG-Labels : 2.1  
EmS Number 1 : F-D  
EmS Number 2 : S-U  
  
Marine pollutant : no

**SECTION 15. REGULATORY INFORMATION**

**SARA 311/312 Hazards** : Fire Hazard  
Acute Health Hazard  
Sudden Release of Pressure Hazard

**CERCLA Reportable Quantity** : Calculated RQ exceeds reasonably attainable upper limit.

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

<u>Components</u>	<u>CAS-No.</u>
n-heptane	142-82-5
isopropanol	67-63-0
ethanol	64-17-5
Carbon dioxide	124-38-9
toluene	108-88-3
ethylbenzene	100-41-4
benzene	71-43-2

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**MASS RTK**

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

<u>Components</u>	<u>CAS-No.</u>
n-heptane	142-82-5
isopropanol	67-63-0
ethanol	64-17-5
Carbon dioxide	124-38-9
benzene	71-43-2
acetaldehyde	75-07-0

**NJ RTK**

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

<u>Components</u>	<u>CAS-No.</u>
n-heptane	142-82-5
isopropanol	67-63-0
ethanol	64-17-5
Carbon dioxide	124-38-9

**California Prop. 65**

: WARNING! This product contains a chemical known to the State of California to cause cancer.

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

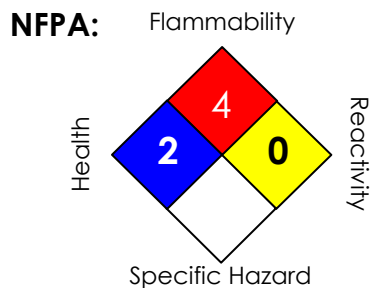
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**SECTION 16. OTHER INFORMATION****Further information****HMIS III:**

<b>HEALTH</b>	<b>3</b>
<b>FLAMMABILITY</b>	<b>4</b>
<b>PHYSICAL</b>	<b>2</b>

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

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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