



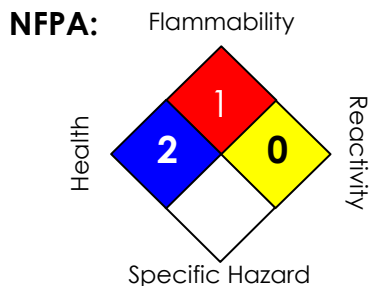
## Material Safety Data Sheet

### NONFLAMMABLE BRAKE & PARTS CLEANER

Version 2.0

Revision Date 04/27/2011

Print Date 04/29/2011



**HMIS III:**

<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL</b>	<b>0</b>

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

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Commercial Product Name : NONFLAMMABLE BRAKE & PARTS CLEANER  
Product code : 08939109  
MSDS-Identcode : 10033510  
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.wurth@sap.com  
Emergency telephone number : +1 800 255 3924

#### 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  
Colour : colourless, clear  
Odour : solvent-like  
Odour - Control parameters : no data available



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Hazard Summary : Toxic  
Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C / 122 °F.  
Cancer hazard - can cause cancer

#### Potential Health Effects

Eyes : May cause eye irritation.

Skin : May cause skin irritation.

Inhalation : Harmful if inhaled.

Target Organs : Eyes  
Skin  
Respiratory system  
Liver  
Kidney  
Central nervous system  
Bladder

Carcinogenicity:  
ACGIH : tetrachloroethylene (CAS-No.: 127-18-4)

NTP : tetrachloroethylene (CAS-No.: 127-18-4)

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.

CA Prop 65 : WARNING! This product contains a chemical known to the State of California to cause cancer.

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

Component	CAS-No.	Weight percent- Weight percent
tetrachloroethylene	127-18-4	>= 95 - <= 100
Carbon dioxide	124-38-9	>= 2 - < 3



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#### SECTION 4. 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. |
| 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   | : | Call a physician immediately. In case of contact, immediately flush skin with soap and plenty of water. Do NOT use solvents or thinners.   |
| 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.   |

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#### SECTION 5. FIRE-FIGHTING MEASURES

- |                                       |   |  |
|---------------------------------------|---|--|
| Form                                  | : | aerosol  |
| Lower explosion limit                 | : | Note: no data available  |
| Upper explosion limit                 | : | Note: no data available  |
| Suitable extinguishing media          | : | Dry powder<br>Foam<br>Carbon dioxide (CO <sub>2</sub> )  |
| Unsuitable extinguishing media        | : | Water  |
| Specific hazards during fire fighting | : | Do not use a solid water stream as it may scatter and spread fire.<br>Hazardous decomposition products may be formed under fire conditions (see section 10). |



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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.  
If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

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#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

: Refer to protective measures listed in sections 7 and 8.  
Use personal protective equipment.  
Avoid contact with skin and eyes.  
Ensure adequate ventilation, especially in confined areas.  
Avoid inhalation of vapour or mist.

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

: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.  
Clean contaminated surface thoroughly.

CERCLA Hazardous substances and corresponding RQs:



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127-18-4

100 lbs *final RQ*

#### 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.  
Use appropriate container to avoid environmental contamination.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

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 : Incompatible with oxidizing agents.

Storage temperature : < 49 °C (< 120 °F)

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Exposure Guidelines

Components	CAS-No.	List	Type:	Value	Update
tetrachloroethylene	127-18-4	ACGIH	TWA	25 ppm	2007-01-01
		ACGIH	STEL	100 ppm	2007-01-01



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		OSHA P0	TWA	25 ppm 170 mg/m3	1989-01-19
		OSHA Z2	TWA	100 ppm	2007-01-01
		OSHA Z2	CEIL	200 ppm	2007-01-01
		OSHA Z2	Peak	300 ppm	2007-01-01
Carbon dioxide	124-38-9	ACGIH	TWA	5,000 ppm	2007-01-01
		ACGIH	STEL	30,000 ppm	2007-01-01
		OSHA P0	TWA	10,000 ppm 18,000 mg/m3	1989-01-19
		OSHA P0	STEL	30,000 ppm 54,000 mg/m3	1989-01-19
		OSHA P1	TWA	5,000 ppm 9,000 mg/m3	1997-08-04
		NIOSH REL	TWA	5,000 ppm 9,000 mg/m3	2005-09-01
		NIOSH REL	ST	30,000 ppm 54,000 mg/m3	2005-09-01

- Engineering measures : Provide sufficient air exchange and/or exhaust in work rooms.
- Eye protection : In case of splash hazard, please wear protective goggles.
- Skin and body protection : Wear suitable protective clothing.  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- 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  
Colour : colourless, clear  
Odour : solvent-like  
Lower explosion limit : no data available



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Upper explosion limit	: no data available
pH	: not applicable
Freezing point	: no data available
Boiling point/boiling range	: no data available
Vapour pressure	: no data available
Relative vapour density	: no data available
Density	: 1.54 g/cm <sup>3</sup>
Water solubility	: insoluble
Partition coefficient: n-octanol/water	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: no data available
Volatile organic compounds (VOC) content	: 0.0 %

#### SECTION 10. STABILITY AND REACTIVITY

Materials to avoid	: Oxidizing agents Aluminium magnesium
Hazardous decomposition products	: Carbon oxides Hydrogen chloride gas Phosgene Chlorine
Hazardous reactions	: If the temperature rises there is danger of the vessels bursting due to the high vapor pressure. Note: No decomposition if stored and applied as directed.



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#### 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.

**Component:**

tetrachloroethylene

127-18-4

Acute oral toxicity: LD50 rat  
Dose: 5,650 mg/kg

Acute inhalation toxicity: LC50 rat  
Dose: 42.4 mg/l Exposure time: 4 h

Skin irritation: Classification: Irritating to skin.  
Result: Mild skin irritation

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

Carcinogenicity: Animal experiments showed a statistically significant number of tumours.

#### SECTION 12. ECOLOGICAL INFORMATION

Adsorbed organic bound : not included  
halogens (AOX)

Volatile organic : 0.0 %  
compounds (VOC)  
content

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

**Component:**

tetrachloroethylene

127-18-4

Toxicity to fish:  
LC50

Species: Oncorhynchus mykiss (rainbow trout)  
Dose: 4.99 mg/l  
Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:  
EC50

Species: Daphnia magna (Water flea)  
Dose: 22 mg/l  
Exposure time: 48 h

Toxicity to bacteria:  
EC10





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Species: Pseudomonas putida  
Dose: > 45 mg/l  
Exposure time: 18 h

#### SECTION 13. DISPOSAL CONSIDERATIONS

Adequate disposal : In accordance with local and national regulations.

#### SECTION 14. TRANSPORT INFORMATION

##### DOT 49 CFR

ID No : UN 1950  
Proper shipping name : Aerosols  
Class : 2.2  
Labels : 2.2  
Emergency Response : 126  
Guidebook Number

##### TDGR

ID No : UN 1950  
Proper shipping name : AEROSOLS  
Class : 2.2  
Labels : 2.2

##### ICAO/IATA-DGR

ID No : UN 1950  
Proper shipping name : Aerosols, non-flammable  
Class : 2.2  
ICAO-Labels : 2.2  
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  
(tetrachloroethylene)  
Class : 2.2  
IMDG-Labels : 2.2



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EmS Number 1 : F-D

EmS Number 2 : S-U

Marine pollutant : yes

#### SECTION 15. REGULATORY INFORMATION

**OSHA Hazards** : Toxic by inhalation.  
Moderate skin irritant  
Moderate eye irritant  
Possible carcinogen.

**SARA 311/312 Hazards** : Acute Health Hazard  
Chronic Health Hazard

**CERCLA Reportable Quantity** : 103 lbs

**EPCRA\_313** 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

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

<u>Components</u>	<u>CAS-No.</u>
Carbon dioxide	124-38-9
tetrachloroethylene	127-18-4

**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>
Carbon dioxide	124-38-9
tetrachloroethylene	127-18-4

**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>
Carbon dioxide	124-38-9



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tetrachloroethylene	127-18-4
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#### EPCRA\_302

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA  
Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

SARA 302: No chemicals in this material are subject to the reporting requirements of  
SARA Title III, Section 302.

#### PENN RTK

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

Components	CAS-No.
Carbon dioxide	124-38-9
tetrachloroethylene	127-18-4

## 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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