Safety Data Sheet

according to Regulation (EC) No 1907/2006

Parts Center Brake Cleaner 500ml litho

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Parts Center Brake Cleaner 500ml litho
UFI: DF00-606A-H00M-5RYM; FXX7-T0US-200Q-8WTC

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

Use of the substance/mixture
Cleaner

1.3. Details of the supplier of the safety data sheet

Company name:	parts-center ag
Street:	Heiligwies 16a
Place:	CH Balzers
P.O. box address:	120
	CH-LI-9496 Balzers
Telephone:	+41 32 512 13 21
E-mail:	info@parts-center.ch

1.4. Emergency telephone number

+49 (0) 30 19240 (Berlin Poison Emergency Centre)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008
Aerosol 1; H222-H229
Asp. Tox. 1; H304
Skin Irrit. 2; H315
STOT SE 3; H336
Aquatic Chronic 2; H411
Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazardous components which must be listed on the label
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
Signal word: Danger

Pictograms:



Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P302+P352	IF ON SKIN: Wash with plenty of water.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P304+P312	IF INHALED: Call a POISON CENTRE or doctor if you feel unwell.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container in accordance with official regulations.

2.3. Other hazards

In the event of insufficient ventilation and/or through use, explosive/highly flammable mixtures may form.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No.	Substance name / identifiers / classification Classification (Regulation (EC) No 1272/2008)	Content
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane EC No.: 921-024-6; Index No.: REACH No.: 01-2119475514-35 Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411	50 - < 100 %
124-38-9	Carbon dioxide EC No.: 204-696-9	3 - < 5 %

Full text of H- and EUH-statements: see Section 16.

Specific concentration limits, M-factors and ATE

CAS No.	EC No. / substance name / data	Content
64742-49-0	921-024-6 Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Inhalation: LC50 = > 25.2 mg/l (vapours); dermal: LD50 = > 2800 - 3100 mg/kg; oral: LD50 = > 5000 mg/kg	50 - < 100 %

Labelling of ingredients according to Regulation (EC) No 648/2004

>= 30 % aliphatic hydrocarbons.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Move persons to safety. Never give anything by mouth to an unconscious person or a person experiencing convulsions.

After inhalation

Remove person to fresh air and keep comfortable for breathing. If symptoms occur or in case of doubt, seek medical advice.

After contact with skin

Wash with plenty of soap and water. Take off immediately all contaminated clothing and wash it before reuse. If symptoms occur or in case of doubt, seek medical advice.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist if symptoms occur or persist.

After ingestion

Do NOT induce vomiting. If vomiting occurs, be aware of the aspiration hazard. Medical attention must be sought!

4.2. Most important symptoms and effects, both acute and delayed

Headache, nausea, dizziness, tiredness, skin irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Call a POISON CENTRE. Symptoms may not appear until many hours after exposure.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water mist. Foam. Carbon dioxide (CO2). Dry extinguishing powder.

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Incomplete combustion and thermolysis can produce gases of varying toxicity. For products containing hydrocarbons, these include, for example, CO, CO2, aldehydes and soot. These can be very dangerous if inhaled at high concentrations or in confined spaces.

5.3. Advice for firefighters

Do not breathe explosion and fire gases. If safe to do so, remove undamaged containers from the danger area. In case of fire: Use self-contained breathing apparatus.

Additional information

Risk of container bursting.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General information

Use respiratory protection when exposed to vapours, dusts and aerosols. Remove all ignition sources. Keep away from heat, hot surfaces, sparks, open flames and other types of ignition sources. No smoking.

Wear personal protective equipment.

For non-emergency personnel

First aider: Pay attention to self-protection!

For emergency responders

Fight fire with normal precautions from a reasonable distance.

6.2. Environmental precautions

Do not allow to enter drains or watercourses. Prevent spreading over a wide area (e.g. by containment or oil barriers). Ensure that all wastewater is collected and treated in a wastewater treatment plant.

6.3. Methods and material for containment and cleaning up

For containment

Prevent spreading over a wide area (e.g. by containment or oil barriers).

For cleaning up

Thoroughly clean contaminated objects and floors, observing environmental regulations.

Further information

Absorb with liquid-binding material (sand, diatomaceous earth, acid binders, universal binders). Thoroughly clean contaminated objects and floors, observing environmental regulations.

6.4. Reference to other sections

Safe handling: see Section 7.

Personal protective equipment: see Section 8.

Disposal: see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Follow the instructions for use.

Dust must be safely extracted directly at the point of generation. Vapours/aerosols must be safely extracted directly at the point of generation. If local exhaust ventilation is not possible or is insufficient, good ventilation of the work area should be ensured wherever possible.

Do not eat, drink, smoke or take snuff at the workplace.

Wear personal protective equipment (see Section 8).

In the event of insufficient ventilation and/or through use, explosive/highly flammable mixtures may form.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Heating causes a rise in pressure and a risk of bursting.

Advice on general occupational hygiene

Avoid exposure. Wear suitable protective clothing at work. Establish and follow a skin protection plan!

Further information on handling

Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep container tightly closed. Observe statutory rules and regulations.

Advice on common storage

Do not store together with: Oxidising agents. Pyrophoric or self-heating hazardous substances. Food and animal feed.

Further information on storage conditions

Protect from frost. Protect against direct sunlight. Store in a cool and dry place. Observe statutory rules and regulations.

Storage class according to TRGS 510: 2B (Aerosol dispensers and lighters).

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No.	Substance	ppm	mg/m³	F/m³	Peak limitation factor	Note	Type
124-38-9	Carbon dioxide	5000	9100		2(II)		TRGS 900
-	Hydrocarbon mixtures, fractions (RCP group): C6-C8 aliphatics		700		2(II)		TRGS 900

DNEL/DMEL values

CAS No. 64742-49-0: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

DNEL type	Exposure route	Effect	Value
Worker DNEL, long-term	Inhalation	Systemic	2035 mg/m³
Worker DNEL, long-term	Dermal	Systemic	773 mg/kg bw/day
Consumer DNEL, long-term	Inhalation	Systemic	608 mg/m³
Consumer DNEL, long-term	Dermal	Systemic	699 mg/kg bw/day
Consumer DNEL, long-term	Oral	Systemic	699 mg/kg bw/day

Additional information on limit values

a: No restriction.

b: End of exposure or end of shift.

c: In the case of long-term exposure: after several preceding shifts.

d: Before the following shift.

Y: A risk of harm to the unborn child need not be feared if the occupational exposure limit (AGW) and the biological limit value (BGW) are complied with.

Z: A risk of harm to the unborn child cannot be ruled out even if the occupational exposure limit (AGW) and the biological limit value (BGW) are complied with.

Blood (B)

Urine (U)

8.2. Exposure controls

Appropriate engineering controls

Use equipment with local exhaust ventilation when handling in open systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: Tightly fitting safety goggles.

DIN EN 166

Hand protection

Preventive skin protection with barrier cream. When handling chemical substances, only chemical protective gloves bearing the CE mark, including a four-digit test number, may be worn. Chemical protective gloves must be selected specifically for the workplace according to the concentration and quantity of hazardous substances.

Suitable material: NBR (nitrile rubber). Breakthrough time: 480 min.

Thickness of glove material: 0.45 mm.

EN ISO 374

Body protection

Wear suitable protective clothing at work. Take off immediately all contaminated clothing and wash it before reuse.

Respiratory protection

Use respiratory protection when exposed to vapours, dusts and aerosols.

If the relevant occupational exposure limits are exceeded, observe the following:

Suitable respiratory protective equipment: Combination filtering device (DIN EN 141).

Filtering device with filter or powered air-purifying device, type: AX.

Observe the wearing-time limitations specified by the manufacturer.

Observe statutory rules and regulations.

Environmental exposure controls

Observe statutory rules and regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: Colourless
Odour: Solvent-like

Property	Value	Test method
Melting point/freezing point:	Not determined	
Boiling point or initial boiling point and boiling range:	88 °C	
Flammability:	Not applicable Not applicable	
Lower explosion limit:	1 vol. %	
Upper explosion limit:	8 vol. %	
Flash point:	-12 °C	
Ignition temperature:	> 200 °C	
Decomposition temperature:	Not determined	
pH (at 20 °C):		
Kinematic viscosity (at 40 °C):	< 7 mm²/s	
Water solubility:	No testing required, as the substance is known to be insoluble in water.	
Solubility in other solvents:	Not determined	
Partition coefficient n-octanol/water:	Not determined	
Vapour pressure:	Not determined	
Density (at 20 °C):	0.673 g/cm³	DIN 51757
Relative vapour density:	Not determined	

9.2. Other information

Information with regard to physical hazard classes

Auto-ignition temperature

Solid: Not applicable
Gas: Not applicable

Oxidising properties

Not oxidising.

Other safety characteristics

Evaporation rate: Not determined
Solvent separation test: No information available.
Solvent content: No information available.
Solid content: Not determined
Sublimation temperature: No information available.
Softening point: No information available.
Flow time: No information available.

Further information

The information refers to the technical active ingredient: Relative density, colour, odour, viscosity, pH.

SECTION 10: Stability and reactivity

10.1. Reactivity

Risk of ignition.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Do not expose to temperatures exceeding 50 °C. Heating causes a rise in pressure and a risk of bursting.

10.4. Conditions to avoid

Keep away from heat sources (e.g. hot surfaces), sparks and open flames. Vapours may form explosive mixtures with air. Take precautionary measures against static discharge.

10.5. Incompatible materials

Oxidising agents. Pyrophoric or self-heating hazardous substances.

10.6. Hazardous decomposition products

Incomplete combustion and thermolysis can produce gases of varying toxicity. For products containing hydrocarbons, these include, for example, CO, CO2, aldehydes and soot. These can be very dangerous if inhaled at high concentrations or in confined spaces.

Further information

Do not mix with other chemicals.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

Based on available data, the classification criteria are not met.

Calculated ATEmix

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation, vapour) > 20 mg/l; ATE (inhalation, dust/mist) > 5 mg/l.

CAS No. 64742-49-0: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Exposure route	Dose	Species	Source	Method
Oral	LD50 > 5000 mg/kg	Rat		
Dermal	LD50 > 2800 - 3100 mg/kg	Rat		
Inhalation (4 h), vapour	LC50 > 25.2 mg/l	Rat		

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic, mutagenic and toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

No evidence of carcinogenicity in humans is available.

No evidence of germ cell mutagenicity in humans is available.

Specific target organ toxicity - single exposure
May cause drowsiness or dizziness. (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)

Specific target organ toxicity - repeated exposure
Based on available data, the classification criteria are not met.

Aspiration hazard
May be fatal if swallowed and enters airways.

Information on likely routes of exposure
Ingestion, inhalation, skin contact, eye contact.
Reference to other sections: 2.1, 4.2.

Specific effects in animal experiments
No information available.

Additional information on tests
The mixture is classified as hazardous according to Regulation (EC) No 1272/2008 [CLP].

11.2. Information on other hazards

Endocrine disrupting properties
This product does not contain any substance with endocrine disrupting properties in humans, as no ingredient meets the criteria.

Other information
No information available.

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.
CAS No. 64742-49-0: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Aquatic toxicity	Dose	Duration	Species	Source	Method
Acute fish toxicity	LC50 > 1-10 mg/l	96 h	Pimephales promelas		
Acute algal toxicity	ErC50 10 - 30 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (1995)	OECD Guideline 201
Acute crustacean toxicity	EC50 > 1-10 mg/l	48 h	Daphnia magna		
Fish toxicity	NOEC 2.045 mg/l	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	
Crustacean toxicity	NOEC 1 mg/l	21 d	Daphnia magna	SIDS Initial Assessment Report For SIAM	OECD Guideline 211

12.2. Persistence and degradability

The product has not been tested. Readily biodegradable (according to OECD criteria). Rapid photochemical oxidation in air.
CAS No. 64742-49-0: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Method	Value	Days	Source	Assessment
OECD Guideline 301 F	98%	28	ECHA	Readily biodegradable (according to OECD criteria)

12.3. Bioaccumulative potential

Based on the available data on elimination/degradation and bioaccumulative potential, long-term damage to the environment cannot be ruled out.

Partition coefficient n-octanol/water

CAS No.	Substance name	Log Pow
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	3.4 - 5.2

12.4. Mobility in soil

Floats on the water surface. Adsorbed by soil; low mobility.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII.
This substance does not meet the criteria for classification as PBT or vPvB.

12.6. Endocrine disrupting properties

This product does not contain any substance with endocrine disrupting properties in non-target organisms, as no ingredient meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter drains or watercourses. Do not allow to enter the subsoil/soil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter drains or watercourses. Dispose of in accordance with official regulations.

Waste code - unused product

160504 - WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste.

Waste code - used product

160504 - WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste.

Waste code - uncleaned packaging

150104 - WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
Hazard label:	2.1
Classification code:	5F
Special provisions:	190 327 344 625
Limited quantity (LQ):	1 L
Excepted quantity:	E0
Transport category:	2
Tunnel restriction code:	D

Inland waterways transport (ADN)

14.1. UN number or ID number:	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
Hazard label:	2.1
Classification code:	5F
Special provisions:	190 327 344 625
Limited quantity (LQ):	1 L
Excepted quantity:	E0

Marine transport (IMDG)

14.1. UN number or ID number:	UN 1950
14.2. UN proper shipping name:	AEROSOLS flammable (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane)
14.3. Transport hazard class(es):	2.1
14.4. Packing group:	-
Hazard label:	2.1
Marine pollutant:	Yes
Special provisions:	63, 190, 277, 327, 344, 381, 959
Limited quantity (LQ):	1000 mL
Excepted quantity:	E0
EmS:	F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	UN 1950
14.2. UN proper shipping name:	AEROSOLS, flammable
14.3. Transport hazard class(es):	2.1
14.4. Packing group:	-
Hazard label:	2.1
Special provisions:	A145 A167 A802
Limited quantity (LQ), passenger:	30 kg G
Passenger LQ:	Y203
Excepted quantity:	E0
IATA packing instruction - passenger:	203
IATA maximum quantity - passenger:	75 kg
IATA packing instruction - cargo:	203
IATA maximum quantity - cargo:	150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:	Yes
Hazardous component:	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

14.6. Special precautions for user

Warning: Flammable gases.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, Annex XVII)

Entry 3, Entry 28, Entry 29, Entry 40, Entry 75.

Directive 2010/75/EU on industrial emissions:	No information available.
Directive 2004/42/EC on VOCs from paints and varnishes:	No information available.

Additional information

Safety data sheet according to Regulation (EC) No 1907/2006 (REACH).

Aerosol Dispensers Directive (75/324/EEC).

National regulatory information

Employment restrictions:	Observe restrictions on the employment of young persons (Section 22 of the German Youth Employment Protection Act, JArbSchG).
Water hazard class:	2 - obviously hazardous to water
Status:	Classification of mixtures according to Annex 1, No. 5 of the German Ordinance on Installations for the Handling of Substances Hazardous to Water (AwSV).

15.2. Chemical safety assessment

Chemical safety assessments have not been carried out for substances in this mixture.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1, 2, 9, 15.

Abbreviations and acronyms

Aerosol:	Aerosols
Flam. Liq:	Flammable liquids
Asp. Tox:	Aspiration hazard
Skin Irrit:	Skin irritation
STOT SE:	Specific target organ toxicity (single exposure)
Aquatic Chronic:	Hazardous to the aquatic environment, chronic
ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA:	International Air Transport Association
IMDG:	International Maritime Code for Dangerous Goods
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
DNEL/DMEL:	Derived No Effect Level / Derived Minimal Effect Level
WEL (UK):	Workplace Exposure Limits
TWA (EC):	Time-Weighted Average
ATE:	Acute Toxicity Estimate
STEL (EC):	Short Term Exposure Limit
LC50:	Lethal Concentration
EC50:	Half maximal Effective Concentration
ErC50:	EC50 in terms of reduction of growth rate

Classification of mixtures and evaluation method used according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Aerosol 1; H222-H229	On the basis of test data
Asp. Tox. 1; H304	Calculation method
Skin Irrit. 2; H315	Bridging principle "Aerosols"
STOT SE 3; H336	Bridging principle "Aerosols"
Aquatic Chronic 2; H411	Calculation method

Full text of H- and EUH-statements (number and full text)

H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Further information

To the best of our knowledge, the information in this safety data sheet corresponds to our knowledge at the time of printing. The information is intended to provide guidance for the safe handling of the product specified in this safety data sheet during storage, processing, transport and disposal. The information is not transferable to other products. If the product is blended, mixed or processed with other materials, or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material thus produced, unless expressly stated otherwise herein.

(The data for the relevant ingredients were taken from the latest valid safety data sheet of the upstream supplier in each case.)