

Printing date 04.04.2019 Version number 1.3 Revision: 04.04.2019

1 Identification

- · Product identifier
- · Trade name: POWER BRAKE CLEAN SPRAY
- Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture Only for proper handling.
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

BUCHER AG LANGENTHAL MOTOREX-Schmiertechnik Bern-Zürich-Strasse 31 CH-4901 Langenthal Telefon +41 (0)62 919 75 75

A1 Accessory Imports 60-62 Burchill St. Loganholme 4129 QLD Australia

Phone: 07 3451 1300

- · Further information obtainable from: msds@motorex.com
- · Emergency telephone number:

In case of a medical emergency following exposure to a chemical, call Poisons Information Centre Australia 13 11 26

2 Hazard(s) Identification

Classification of the substance or mixture

H222 Extremely flammable aerosol. Aerosol 1

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- · Label elements
- · GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms







GHS02 GHS07

· Signal word Danger

· Hazard-determining components of labelling:

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics propan-2-ol

isopentane

Hazard statements

H222 Extremely flammable aerosol.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

Precautionary statements

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

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

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

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

P264 Wash thoroughly after handling.

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

P280 Wear eye protection / face protection.

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

P331 Do NOT induce vomiting.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/attention.

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.

Dispose of contents/container in accordance with local/regional/national/

international regulations.

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable. · **vPvB:** Not applicable.

3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
EC number: 920-750-0	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics Flam. Liq. 2, H225; Asp. Tox. 1, H304; STOT SE 3, H336	50-70%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane Flam. Gas 1, H220; Press. Gas C, H280	10-25%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336	≥10-<20%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane Flam. Gas 1, H220; Press. Gas C, H280	2.5-7.5%

Regulation (EC) No 648/2004 on detergents / Labelling for contents aliphatic hydrocarbons ≥30%

4 First Aid Measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.

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[·] Additional information: For the wording of the listed hazard phrases refer to section 16.

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Indication of any immediate medical attention and special treatment needed. No further relevant information available.

5 Fire Fighting Measures

- · Extinguishing media
- Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and Storage

- · Handling:
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · Information about fire and explosion protection:

Keep ignition sources away - Do not smoke.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

- · Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurised containers.

- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.
- · Storage class: 2 B
- · Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

- · Additional information about design of technical facilities: No further data; see section 7.
- · Control parameters

Ingredients with limit values that require monitoring at the workplace.	· Ingredients with	າ limit values that rec	uire monitorina a	at the workplace:
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106-97-8 butane

NES Long-term value: 1900 mg/m³, 800 ppm WES Long-term value: 1900 mg/m³, 800 ppm

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67-63-0 pro	opan-2-ol		Та
	t-term value: 1230 mg/m³, 500 ppm		
_	g-term value: 983 mg/m³, 400 ppm		
	t-term value: 1230 mg/m³, 500 ppm		
	g-term value: 983 mg/m³, 400 ppm		
74-98-6 pro	-		
NES Asph			
WES Asph	nyxiant		
DNELs			
Hydrocarb	ons, C7-C9, n-alkanes, isoalkanes, cy	clics	
Oral	DNEL/general population/Systemic effec	ts/Long-term	699 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long	g-term	773 mg/kg/24h (worker)
	DNEL/general population/Systemic effec	ts/Long-term	699 mg/kg/24h (consumer)
Inhalative I	DNEL / Workers / Systemic effects / Long	g-term	2,035 mg/m3 (worker)
1	DNEL/general population/Systemic effects/Long-term 608 mg/m3 (consumer)		608 mg/m3 (consumer)
67-63-0 pro	opan-2-ol		
Oral	DNEL/general population/Systemic effec	ts/Long-term	26 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term 888		888 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term 319 mg/kg/24h (consumer		319 mg/kg/24h (consumer)
Inhalative			500 mg/m3 (worker)
	DNEL/general population/Systemic effects/Long-term 89 mg/m3 (consumer)		89 mg/m3 (consumer)
·PNECs			
67-63-0 pro	opan-2-ol		
Oral PNEC	C / Predators / Secondary poisoning	160 mg/kg (predators))	food (secondary poisoning
PNEC / Aquatic organisms / Freshwater		140.9 mg/l (a	aquatic organisms)
PNEC	PNEC / Aquatic organisms / Marine water		aquatic organisms)
	C/Aquatic org/intermittent ses(freshwater)	140.9 mg/l (8	aquatic organisms)
PNEC plant/s	C/Aquatic organisms/Sewage treatment	2,251 mg/l (a	aquatic organisms)
	C / Aquatic organisms / Sediment water)	552 mg/kg (a	aquatic organisms)
PNE	C / Aquatic organisms / Sediment ne water)	552 mg/kg (a	aquatic organisms)
PNEC	C / Terrestrial organism / Soil	28 mg/kg (te	rrestrial organisms)

- Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Not necessary if room is well-ventilated.

Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.

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Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Protective gloves to EN374, resistant to oil in use. Standard EN 374 Level 3 control G1

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.4 mm

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the mixture of chemicals mentioned below the penetration time has to be at least 60 minutes (Permeation according to EN 374 Part 3: Level 1).

- · Eye protection: Not required.
- · Body protection: Protective work clothing

Information on basic physical and cher	mical properties
General Information	
Appearance: Form:	Liquofied goo
Colour:	Liquefied gas Colourless
Odour:	Solvent-like
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range	: 82 °C (DIN EN ISO 3405)
Flash point:	<2 °C
Flammability (solid, gas):	Not applicable.
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation
	explosive air/vapour mixtures are possible.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density at 20 °C:	0.74 g/cm³ (ASTM D 4052)
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.

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	(Contd. of p	age :
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solids content:	0.0 %	
· Other information	No further relevant information available.	

10 Stability and Reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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- · Information on toxicological effects
- · Acute toxicity

Hydrocar	bons, C7-C9, n	-alkanes, isoalkanes, cyclics	
Oral	LD50	8 ml/kg (rat)	
Dermal	LD50	4 ml/kg (rat)	
	LD50	2,800-3,100 mg/kg (rat)	
Inhalative	LC50 / 4h	23.3 mg/l (rat)	
	NOAEC	5.8-24.3 mg/l (rat)	
106-97-8 I	butane		
Inhalative	LC50 / 15 min	1,442.738-1.443 mg/l (rat)	
	LC50 / 15 min	800,000 ppm (rat)	
	LC50 / 2h	1,237 mg/l (mouse)	
	LC50 / 2h	520,400-539,600 ppm (mouse)	
	LC50 / 4h	658 mg/l (rat)	
	NOAEC	4,000-16,000 ppm (rat)	
	NOAEC	7.2-21.4 mg/l (rat)	
	LOAEC	21.6 mg/l (rat)	
	LOAEC	12,000 ppm (rat)	
67-63-0 p	ropan-2-ol		
Oral	LD50	5,840 mg/kg (rat)	
Dermal	LD50	16.4 ml/kg (rabbit)	
	LD50	12,800 mg/kg (rabbit)	
Inhalative	LC50 / 6h	10,000 ppm (rat)	
	NOAEC	5,000 ppm (rat)	
	NOEC	500-5,000 ppm (rat)	
74-98-6 p	ropane		
Inhalative	LC50 / 15 min	1,442.738-1.443 mg/l (rat)	
	LC50 / 15 min	800,000 ppm (rat)	

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LC50 / 2h	1,237 mg/l (mouse)	
LC50 / 2h	520,400-539,600 ppm (mouse)	
NOAEC	4,000-16,000 ppm (rat)	
NOAEC	7.214-21.394 mg/l (rat)	
LOAEC	21.64 mg/l (rat)	
LOAEC	12,000 ppm (rat)	

- Primary irritant effect:
- · Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation Irritating effect.
- Respiratory or skin sensitisation No sensitising effects known.
 Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

12 Ecological Information

· Toxicity

	toxicity:	
-	arbons, C7-C9, n-alkanes, isoalkanes, cyclics	
EC50	0.23 mg/l/21d (aquatic invertebrates)	
EC50	0.64 mg/l/48h (aquatic invertebrates)	
LL50	3-10 mg/l/96h (fish)	
LL50	10-30 mg/l/72h (fish)	
LL50	10-30 mg/l/48h (fish)	
LL50	30-100 mg/l/24h (fish)	
LLO	3 mg/l/96h (fish)	
EL50	13 mg/l/96h (algae / cyanobacteria)	
EL50	4.6-10 mg/l/48h (aquatic invertebrates)	
	10-30 mg/l/48h (algae / cyanobacteria)	
EL50	10-22 mg/l/24h (aquatic invertebrates)	
	10-30 mg/l/24h (algae / cyanobacteria)	
EL50	10-30 mg/l/72h (algae / cyanobacteria)	
EL0	4.6 mg/l/48h (aquatic invertebrates)	
EL0	10 mg/l/24h (aquatic invertebrates)	
NOEC	0.17 mg/l/21d (aquatic invertebrates)	
NOELR	0.574 mg/l/28d (fish)	
NOELR	1 mg/l/21d (aquatic invertebrates)	
	6.3 mg/l/96h (algae / cyanobacteria)	
LOEC	0.32 mg/l/72h (aquatic invertebrates)	
106-97-8	B butane	
LC50	24.1-147.5 mg/l/96h (fish)	
LC50	14.2-69.4 mg/l/48h (aquatic invertebrates)	
EC50	7.7-19.4 mg/l/96h (algae / cyanobacteria)	
67-63-0	propan-2-ol	
LC50	9.64-10 mg/l/96h (fish)	
LC50	10,000 mg/l/24h (aquatic invertebrates)	
EC50	10,000 mg/l/24h (aquatic invertebrates)	

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74-98-6	propane
LC50	24.11-147.54 mg/l/96h (fish)
LC50	14.22-69.43 mg/l/48h (aquatic invertebrates)
EC50	7.71-19.37 mg/l/96h (algae / cyanobacteria)
2000	1 13.01 mg/moon (algae / Gyanosactona)

- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:

bellaviour ili elivii	onnentai systems.
· Bioaccumulative p	potential
Hydrocarbons, C7	'-C9, n-alkanes, isoalkanes, cyclics
Biodegradability	98 % (28d) (Biodegradability) (OECD 301 F)
106-97-8 butane	
Partition coefficient	1.09-2.8 [] (log Kow) (Bioaccumulation)
67-63-0 propan-2-	ol
Partition coefficient	0.05 [] (log Kow) (Bioaccumulation)
Biodegradability	>70 % (28d) (Biodegradability) (EU Method C.5)
74-98-6 propane	
Partition coefficient	1.09-2.8 [] (log Kow) (Bioaccumulation)

- Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (according to Appendix 1 AwSV): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

- · Uncleaned packaging:
- Recommendation:

Disposal must be made according to official regulations.

Discharged containers can contain flammable or explosive vapours.

· UN-Number	
ADG, IMDG, IATA	UN1950
· UN proper shipping name	
ADG	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
· IMDG	AEROSOLS (Hydrocarbons, C7-C9, n-alkanes isoalkanes, cyclics, isopentane), MARINE POLLUTANT
·IATA	AEROSOLS, flammable

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Transport hazard class(es)	
ADG	
Class Label	2 5F Gases. 2.1
IMDG	
¥2	
· Class · Label	2.1 2.1
· IATA	
2	
Class Label	2.1 2.1
Packing group ADG, IMDG, IATA	Void
Environmental hazards: Marine pollutant:	Product contains environmentally hazardou substances: Hydrocarbons, C7-C9, n-alkanes isoalkanes, cyclics Yes (DOT)
marine ponutant.	Symbol (fish and tree)
Special marking (ADG):	Symbol (fish and tree)
Special precautions for user Danger code (Kemler):	Warning: Gases.
· EMS Number:	- F-D,S-U
Stowage Code	SW1 Protected from sources of heat.
	SW22 For AEROSOLS with a maximum capacity of litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS Cotagory C. Clear of living guestors.
Segregation Code	Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of litre: Segregation as for class 9. Stow "separate from" class 1 except for division 1.4. For AEROSOL with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WAST AEROSOLS: Segregation as for the appropriat subdivision of class 2.
Transport in bulk according to Annex Marpol and the IBC Code	∢ II of Not applicable.
Transport/Additional information:	
· ADG	
Limited quantities (LQ)	1L

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Code: E0 Not permitted as Excepted Quantity
2
D
1L
Code: E0
Not permitted as Excepted Quantity
UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

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

· Australian Inventory of Chemical Substances

All ingredients are listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

None of the ingredients is listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category

P3a FLAMMABLE AEROSOLS

E2 Hazardous to the Aquatic Environment

- · Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008.

No special training instructions to ensure protection of human health and environment are required.

· Relevant phrases

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eve irritation.

H336 May cause drowsiness or dizziness.

· Department issuing SDS: Abteilung Produktsicherheit

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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Safety Data Sheet according to WHS Regulations

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PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative VPVB: Very Persistent and Very Bloaccumulative
Flam. Gas 1: Flammable gases – Category 1
Aerosol 1: Aerosols – Category 1
Press. Gas C: Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1

* Data compared to the previous version altered.